

Volume III
Geographic Area Statistics

Part 2.
General Summary,
Nebraska—Wyoming

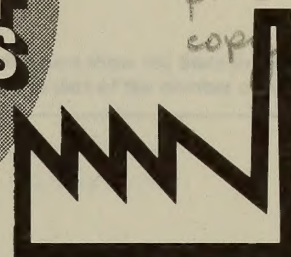


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Volume III

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Part 2.

General Summary, Nebraska—Wyoming



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John P. Govoni, Chief, Census Subject Reports, assisted by **Leonard Pomeroy**, **Stephen Raley**, and **Milbren Thomas**, was directly responsible for analysis of the data and preparation of the State reports.

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Geographic Area Statistics

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Data in this publication may differ slightly from the industry and area reports previously published. These differences are due to corrections which were made for minor errors identified after the industry and area reports were issued. This report reflects these corrections.

PART I

The purpose of this publication is to provide a summary of the data collected by the Bureau of Economic Warfare from the various sources available to it. The data are presented in a form which is convenient for reference and for the preparation of reports.

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INTRODUCTION

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I. General Background

1. HISTORY OF THE ECONOMIC CENSUSES

General—The economic censuses provide a comprehensive statistical profile of a large segment of the national economy. This program includes censuses of manufactures, retail trade, wholesale trade, service industries, mineral industries, and construction industries. In 1977, these industries accounted for nearly 61 percent of the \$1,894.5 billion of the gross domestic product and 70 percent of that originating in the private sector. The principal industry groups not covered were finance, insurance, and real estate; agriculture and forestry; communications; electric, gas, and sanitary services; and transportation. Limited information on transportation is collected, e.g., truck registration and distances travelled, and shipments of commodities by type of transport and distance shipped.

Uses and users of census data—The economic censuses are the primary source of facts about the structure and functioning of a major part of the economy. They are used extensively in compiling the benchmark measures of the national accounts. Census data also serve as weights or benchmarks for indexes of industrial production, productivity, and price; as well as many current surveys of industrial activity.

There is widespread use of the economic censuses, by the Government, in setting economic policy and monitoring economic programs. Manufacturers and distributors rely on census data to measure their potential geographic and industrial markets. The censuses provide the facts needed for economic forecasting; analysis of sales performance; the layout of sales territories; the allocation of advertising budgets; and the location of plants, warehouses, and stores. Trade and professional associations rely on census information to determine how their industries are changing; chambers of commerce and State and local governments depend on them to assess changes in the business structure in their areas. Business magazines and academic researchers rely on census facts as background for many of their articles.

Census reports are purchased by thousands of business and other users; census data are republished and widely circulated by trade associations, business journals, and the daily press; and census volumes are available in all the major public and college libraries.

History—The first economic type census covered the year 1809, when inquiries on manufacturing were included with the 1810 Census of Population. By modern standards, the results of this

pioneer effort would be considered unsatisfactory.¹ However, continued interest in the Nation's economic growth led to successive improvements in economic census-taking during the 19th century. By 1890, the statistical standards and procedures followed in censuses reached a full professional quality.

All of the decennial censuses from 1810 through 1940, with the exception of 1830, included questions on manufacturing. Inquiries on mining first appeared in 1840, and censuses of mineral industries were conducted decennially through 1940. Although some business-related data were collected in 1840, the first census of business was taken for the year 1929. This included retail trade, wholesale trade, and construction; beginning with 1933, selected service trades were covered. Dates of these and other economic censuses from 1809 are shown in table A.

Enterprise statistics—Through the history of the economic censuses, the unit of enumeration has been the establishment—

i.e., a single physical location engaged in a specific line of business (for more discussion, see section 8). This unit is best suited for obtaining measures of direct output and input—labor, material, capital, etc. It is also best suited for providing refined industry and geographic tabulations. Statistics measuring overall income and balance sheet data are best collected at the company or enterprise level. In the early 19th century, these two business units were often identical. With the rise of large-scale operations, it became quite common for the large companies to operate separate manufacturing establishments in a number of diverse industries so that today the establishment and enterprise frequently are not the same. Enterprise measures and balance sheet data have typically been provided by the Internal Revenue Service (IRS) in its Statistics of Income and Federal Trade Commission (FTC) in its Quarterly Financial Report of Corporations.

The Bureau of the Census, as a result of the coordinated collection and tabulation of comparable data for several economic sectors in 1954, also developed an enterprise statistics

Table A. **Years Covered by U.S. Economic Censuses: 1809 to 1977**

Year covered	Manufactures	Mineral industries	Fisheries	Construction industries	Retail trade	Wholesale trade	Service industries ¹	Transportation ²
1809.....	X	-	-	-	-	-	-	-
1819.....	X	-	-	-	-	-	-	-
1839.....	X	-	-	-	-	-	-	-
1840.....	-	X	-	-	-	-	-	-
1849.....	X	-	-	-	-	-	-	-
1850.....	-	X	-	-	-	-	-	-
1859.....	X	-	-	-	-	-	-	-
1860.....	-	X	-	-	-	-	-	-
1869.....	X	-	-	-	-	-	-	-
1870.....	-	X	-	-	-	-	-	-
1879.....	X	-	-	-	-	-	-	-
1880.....	-	X	X	-	-	-	-	-
1889.....	X	X	X	-	-	-	-	-
1899.....	X	-	-	-	-	-	-	-
1902.....	-	X	-	-	-	-	-	-
1904.....	X	-	-	-	-	-	-	-
1908.....	-	-	X	-	-	-	-	-
1909.....	X	X	-	-	-	-	-	-
1914.....	X	-	-	-	-	-	-	-
1919.....	X	X	-	-	-	-	-	-
1921.....	X	-	-	-	-	-	-	-
1923.....	X	-	-	-	-	-	-	-
1925.....	X	-	-	-	-	-	-	-
1927.....	X	-	-	-	-	-	-	-
1929.....	X	X	-	X	X	X	-	-
1931.....	X	-	-	-	-	-	-	-
1933.....	X	-	-	-	X	X	X	-
1935.....	X	X	-	X	X	X	X	-
1937.....	X	-	-	-	-	-	-	-
1939.....	X	X	-	X	X	X	X	-
1947.....	X	-	-	-	-	-	-	-
1948.....	-	-	-	-	X	X	X	-
1954.....	X	X	-	-	X	X	X	-
1958.....	X	X	-	-	X	X	X	-
1963.....	X	X	X	-	X	X	X	X
1967.....	X	X	X	X	X	X	X	X
1972.....	X	X	-	X	X	X	X	X
1977.....	X	X	-	X	X	X	X	X

- Not published. X Published.

¹Actual coverage varied from census to census.

²Limited information only.

¹ For an appraisal of early censuses of manufacturing, see Meyer H. Fishbein, *The Censuses of Manufactures 1810-1890*. National Archives Publication No. 63-22, June 1963, Government Printing Office.

program. This program relates census company-level data to data measuring the activities of individual operating units or establishments within the companies. Thus, a measurement of the integration and diversification of the American enterprise system became available. The enterprise statistics program also made it possible to link census establishment-based data on a modified basis to enterprise-based statistical systems such as the IRS's Statistics of Income for Corporations.

Legal provisions—The periodic economic censuses are required by law. Title 13 of the United States Code specifies the frequency of the censuses, the kinds of activities to be covered, the obligation to report, the penalties for failure to report, and the confidentiality of returns. It also authorizes the use of sampling techniques in conducting censuses. As amended in 1964, Title 13 requires the economic censuses to be taken at 5-year intervals, covering the years ending in "2" and "7." The next censuses will cover the year 1982 and will include the census of agriculture, which has been customarily conducted on a different time sequence from the other economic censuses. The pertinent portions of Title 13 are quoted in appendix E.

2. CHARACTERISTICS OF THE INDUSTRIAL SECTOR

General—Manufacturing is the largest sector of the economy. In 1977, manufacturing plants employed nearly 20 million persons, or 20 percent of the civilian labor force of 97.4 million. As shown in table B, gross domestic product (GDP) originating in manufacturing averages almost 24 percent of the total. Wholesale and retail trade combined was the next largest sector with 17 percent of the GDP.

Cyclical changes—The need for frequent and comprehensive statistics on manufacturing derives as much from its sensitivity to cyclical influences as from its relative size. Cyclical changes in income originating in manufacturing tend to be relatively larger than in the economy as a whole, as can be seen in the movement of national income originating in manufacturing from 1929 to 1933 to 1939 in table C.

Within manufacturing, durable goods industries accounted for about 60 percent of all manufactures during recent periods. This category tends to be more volatile than nondurable goods,

Table B. Gross Domestic Product, by Industry, for Selected Years: 1947 to 1977

Industry	1947	1954	1958	1963	1967	1972	1977
Billions of dollars							
Gross national product ¹	233.1	366.8	449.7	596.7	799.6	1,185.9	1,918.0
Gross domestic product ¹	231.8	364.5	446.6	591.8	793.7	1,175.0	1,894.5
Manufacturing.....	66.2	106.4	123.8	167.4	222.3	292.5	462.4
Nondurable goods.....	32.7	45.6	54.1	69.8	88.7	119.3	185.3
Durable goods.....	33.5	60.8	69.7	97.6	133.6	173.2	276.6
Wholesale and retail trade.....	44.2	60.9	75.2	96.1	130.1	199.5	322.5
Government and government enterprises.....	19.3	36.9	47.1	65.9	96.3	155.4	237.2
Services.....	20.2	30.5	42.3	60.0	86.1	136.5	234.3
Finance, insurance, and real estate.....	23.2	46.5	62.4	85.3	114.2	169.8	274.0
Contract construction.....	9.1	17.2	21.0	27.4	37.5	59.4	86.7
Transportation.....	13.6	18.1	20.9	24.9	32.1	45.6	71.2
Agriculture, forestry, and fisheries.....	20.8	20.7	21.9	22.0	24.2	35.4	53.8
Electric, gas, and sanitary services.....	3.8	8.0	10.7	14.9	18.5	28.8	49.9
Communication.....	3.1	6.5	8.9	13.1	18.0	29.8	49.4
Mining.....	6.8	10.9	12.4	13.1	14.6	19.0	48.6
Rest of the world ¹	-	-	-	-	-	-	-
Percent of gross domestic product							
Gross national product ¹	-	-	-	-	-	-	-
Gross domestic product ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Manufacturing.....	28.7	29.2	27.7	28.3	28.0	25.0	24.4
Nondurable goods.....	14.2	12.5	12.1	11.8	11.2	10.2	9.8
Durable goods.....	14.5	16.7	15.6	16.5	16.8	14.8	14.6
Wholesale and retail trade.....	19.2	16.7	16.8	16.2	16.4	17.0	17.0
Government and government enterprises.....	8.4	10.1	10.5	11.1	12.1	13.3	12.5
Services.....	8.8	8.4	9.5	10.1	10.8	11.6	12.4
Finance, insurance, and real estate.....	10.1	12.8	14.0	14.4	14.4	14.5	14.6
Contract construction.....	4.0	4.7	4.7	4.6	4.7	5.1	4.6
Transportation.....	5.9	5.0	4.7	4.2	4.0	3.9	3.8
Agriculture, forestry, and fisheries.....	9.0	5.7	4.9	3.7	3.0	3.0	2.8
Electric, gas, and sanitary services.....	1.7	2.2	2.4	2.5	2.3	2.5	2.6
Communication.....	1.3	1.8	2.0	2.2	2.3	2.5	2.6
Mining.....	3.0	3.0	2.8	2.2	1.8	1.6	2.6
Rest of the world ¹	-	-	-	-	-	-	-

¹Gross national product is the market value of goods and services produced by labor and property supplied by residents of the United States. Gross domestic product is the value of goods and services attributable to labor and property located within the United States. It equals GNP less the "Rest of the world" which is the net inflow of labor and property income from abroad.

generally accounting for a smaller percentage of all manufactures during periods of contraction and a larger percentage during periods of expansion. In the early thirties, for example, as shown in table C, durable goods manufacturing fell to only about one-third of the total.²

Geographic distribution—In the early and middle 19th century, manufacturing activity was concentrated in the Northeast. Over the past 130 years, as shown in table D; there has been a steady decline in the proportion accounted for by the Northeastern States. Industry expanded into the north central region in the

Table C. Total National Income and Amounts Originating in Durable and Nondurable Manufactures for Selected Years: 1929 to 1977

Year	Gross national product ¹ (bil. dol.)	Gross domestic product ¹ (bil. dol.)	National income without capital consumption adjustment ¹ (bil. dol.)	National income originating in manufacturing			Manufacturing as a percent of national income (D:C)	Durable goods industries as a percent of total manufacturing (F:D)
				Total (bil. dol.)	Nondurable goods industries (bil. dol.)	Durable goods industries (bil. dol.)		
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
1977.....	1,918.0	1,894.5	1,582.6	411.5	162.9	248.6	26	60
1976.....	1,718.0	1,697.5	1,413.0	366.6	149.9	216.7	26	59
1975.....	1,549.2	1,531.9	1,267.4	317.7	132.1	185.6	25	59
1974.....	1,434.2	1,414.4	1,176.8	301.4	120.6	180.8	26	60
1973.....	1,326.4	1,310.4	1,094.1	285.3	108.7	176.7	26	62
1972.....	1,185.9	1,175.0	969.9	252.3	98.3	154.0	26	61
1971.....	1,077.6	1,068.5	878.1	226.5	92.1	134.5	26	59
1970.....	992.7	985.4	814.8	215.1	87.7	127.4	26	59
1969.....	944.0	937.1	780.8	221.9	85.7	136.2	28	61
1968.....	873.4	866.7	722.7	212.7	81.6	129.4	31	59
1967.....	799.6	793.7	661.5	193.7	74.8	119.0	29	61
1966.....	756.0	750.3	627.0	189.7	72.2	117.5	30	62
1965.....	691.1	685.2	571.1	171.3	65.9	105.4	30	62
1964.....	637.7	632.3	524.2	154.2	61.3	93.2	29	60
1963.....	596.7	591.8	488.6	143.8	57.5	86.3	29	60
1962.....	565.0	560.5	463.4	136.1	55.1	81.0	29	60
1961.....	524.6	520.7	433.3	125.1	52.7	72.4	29	58
1960.....	506.5	502.9	420.8	125.1	51.9	73.2	30	59
1959.....	487.9	484.6	406.8	124.3	51.2	73.1	31	59
1958.....	449.7	446.6	373.4	107.9	45.8	62.1	29	58
1957.....	444.0	440.5	371.7	116.3	46.4	70.0	31	60
1956.....	421.7	418.5	355.7	113.2	46.3	66.9	32	59
1955.....	400.0	397.3	335.5	108.0	44.0	63.9	32	59
1954.....	366.8	364.5	307.2	94.7	39.7	55.0	31	58
1953.....	366.8	364.6	309.0	100.5	40.3	60.2	33	60
1952.....	348.0	345.7	295.5	92.6	38.3	54.3	31	59
1951.....	330.8	328.7	281.7	90.3	38.4	51.9	32	57
1950.....	286.5	284.8	244.0	76.3	33.4	42.9	31	56
1949.....	258.3	256.9	220.1	64.8	30.6	34.3	29	53
1948.....	259.5	257.9	226.7	68.8	32.9	35.9	30	52
1947.....	233.1	231.8	201.0	59.6	28.1	31.5	30	53
1943.....	192.1	191.6	171.5	58.3	19.6	38.6	34	55
1939.....	90.9	90.5	73.2	18.1	9.1	9.0	25	50
1935.....	72.5	72.1	57.6	13.4	7.3	6.1	23	46
1933.....	55.8	55.5	40.6	7.7	4.9	2.8	19	36
1932.....	58.3	57.9	43.1	7.3	5.2	2.1	17	29
1929.....	103.4	102.6	87.2	21.9	10.6	11.3	25	52

¹Gross national product is the market value of goods and services produced by labor and property of residents of the United States. Gross domestic product is the value of goods and services produced within the United States. National income is gross national product less capital consumption allowances, indirect business taxes, and business transfers plus subsidies less surplus of government enterprises.

Source: Survey of Current Business.

²Based on national income rather than gross domestic product (GDP). Industry detail for GDP is available only from 1947; whereas, industry detail for national income is available from 1929 and encompasses the very depressed period of the 1930's.

Table D. **Employment in Manufacturing Establishments by Region: 1849 to 1977**

Year	United States	North-east	North Central	South	West
Number of employees (thousands)					
1977.....	19,590	5,008	6,272	5,593	2,717
1972.....	19,029	5,306	6,135	5,221	2,367
1967.....	18,492	5,573	6,059	4,553	2,305
1963.....	16,235	5,190	5,239	3,780	2,025
1958.....	15,423	5,242	5,017	3,382	1,779
1947.....	14,294	5,429	5,109	2,710	1,054
1939.....	9,527	3,879	3,184	1,852	612
1929.....	10,198	4,246	3,516	1,758	675
1899.....	5,077	2,629	1,474	793	181
1849.....	957	696	110	146	4
Percent of U.S. total					
1977.....	100	26	32	29	14
1972.....	100	28	32	27	13
1967.....	100	30	33	25	12
1963.....	100	32	32	23	13
1958.....	100	34	33	22	12
1947.....	100	38	36	19	7
1939.....	100	41	34	20	6
1929.....	100	42	35	17	7
1899.....	100	52	29	16	4
1849.....	100	73	12	15	-

Note: Detail may not add to totals because of independent rounding. 1849 data include hand and neighborhood industries, which were excluded from the censuses of manufactures beginning with 1899.

Source: Census of Manufactures.

latter part of the 19th century and, in more recent years, displayed a marked growth in the South and West.

Size distribution—Manufacturing activity tends to be characterized by relative large-scale operations. While there are many small manufacturing plants, they account for a relatively small part of the total output of goods. As shown in table E, over half of the plants covered in the 1977 Census of Manufactures were very small, employing less than 10 workers, but they accounted for less than 3 percent of total manufacturing activity as measured by value added by manufacture. (See appendix B for definition of value added).

Table E. **Number of Establishments and Value Added by Manufacture by Size of Establishment: 1977**

(Cumulative percentage)

Employment size class	Establishments	Value added by manufacture
All establishments.....	100.0	100.0
1 to 4 employees.....	40.1	1.0
1 to 9 employees.....	53.8	2.4
1 to 19 employees.....	67.6	5.2
1 to 49 employees.....	82.3	12.2
1 to 99 employees.....	89.9	20.5
1 to 249 employees.....	96.0	36.3
1 to 499 employees.....	98.3	51.0
1 to 999 employees.....	99.3	65.8
1 to 2,499 employees.....	99.8	80.1

3. CENSUS OF MANUFACTURES—BENCHMARK STATISTICS

In the farm-oriented economy of the early 19th century, the need for industrial statistics for setting government policy, except for tariffs and taxes, was slight. A few series on physical output of commodities originated either from private sources (flour, iron, steel, etc.) or as a byproduct of tax collection or other government functions (liquors, beer, tobacco products, etc.). The only sources of information on the growing manufacturing sector were the censuses of manufactures, then taken at 10-year intervals. Today, the need for industrial statistics has greatly increased so there is now a vast array of detailed information covering virtually every measurable aspect of industrial activity including employment; payrolls; hours worked; production; prices; inventories; orders; investment in structures, machinery, and equipment; and consumption of raw materials, fuels, and water. Many of these statistics are available at frequent intervals and very promptly after the close of the accounting period. Sophisticated indicators of economic change have also been developed, such as price and production indexes and the gross national product accounts that are published at monthly or quarterly intervals.

The census of manufactures, though conducted only at 5-year intervals, still plays an essential role since no other source measures the structure of the industrial sector in such a comprehensive and detailed way.

For every manufacturing plant with one employee or more, the census obtains data on its input of labor, materials, and capital; its output of products and services; its location; and the legal form of organization of the owning firm.³

A set of summary of general statistics are developed for each establishment (that is, total employment, payroll, number of production-worker hours and wages, cost of materials, value of shipments, inventories, capital expenditures, and value added by manufacture) and aggregated by industry, by area, by employment size of establishment, by degree of product specialization within plant, and by type of ownership. Reports are published on the detailed industrial characteristics of each State and large standard metropolitan statistical area (SMSA); and overall measures of manufacturing activity are shown at the county and individual city level provided the information can be published without compromising the confidentiality of individual company data. Since census legislation guarantees confidentiality to the firms that are required to report, it is frequently necessary to suppress some aggregates. Since a significant amount of industry detail cannot be published for the 3,140 counties and county equivalents in the United States, a special computer tape on Location of Manufacturing Plants was developed to provide a complete industry-county cross-section description of manufacturing. This tape includes the number of establishments in each of the 450 industries by county or county-equivalent area, by employment size. Comparison of this complete profile between censuses is used to study shifts in the geographic dispersion of industries and the industrial structure of local areas.

³ Since 1967, some of this information for 120,000 small companies was not obtained directly but estimated from other government records. See the discussion of coverage of establishments in items 4 and 6.

The census of manufactures also facilitates the conduct of more frequent surveys on a sample basis. In fact, the present legislation specifying that censuses be conducted every 5 years authorizes an annual survey of manufactures (ASM) on a sample basis during the intervening years. The 5-year census provides the framework for selecting a new sample and the periodic universe levels to benchmark the sample estimates. The sample includes about one-fifth of all establishments. All large establishments are included in every sample; the smaller are selected proportionately to their size and are replaced at the end of each census. Thus, there is an annual updating of the census of manufactures in terms of broad measures of economic activity. The ASM contains the same basic measures of economic activity of the plant such as employment, payrolls, value of shipments, value added by manufacture, as does the census of manufactures, but obtains less detailed information on products, materials consumption, and equipment.⁴

The census of manufactures also is used to update other indicators of economic activity, especially the national income accounts. Census data on materials consumed and product output by industry are basic to the input-output matrix developed by the Bureau of Economic Analysis (BEA) for the manufacturing sector. The Federal Reserve Board's monthly Index of Industrial Production—a key indicator of current economic activity—relies on census industry and product data as benchmarks and weights to sum industries to higher levels of aggregation. The census and ASM also provide benchmarks for hundreds of monthly and quarterly surveys of commodity output conducted by the Bureau of the Census, other government agencies, and by manufacturers' associations.

4. INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Structure of the SIC System—The establishments in the census of manufactures are classified according to the SIC Manual. The SIC Manual covers the entire field of economic activities, subdivided as follows:

Industrial division	Title	Major groups
A	Agriculture, forestry, and fisheries	01-09
B	Mining	10-14
C	Contract construction	15-17
D	Manufacturing	20-39
E	Transportation, communication, electric, gas, and sanitary services	40-49
F	Wholesale and retail trade	50-59
G	Finance, insurance, and real estate	60-67

⁴Since the ASM is based on a sample, the cross-classifications by industry and by area are fewer than in the census of manufactures. At the U.S. level, statistics are published in the annual survey for practically all of the 450 industries. However, at the SMSA level, statistics are published only for 3-digit and 2-digit industry groupings. At the county level, information is published for about 10 percent of the 3,140 counties and equivalent areas. These 300 odd counties are the larger ones in terms of manufacturing activity and account for about 80 percent of total manufacturing employment. Data for cities are shown for those cities having over 20,000 manufacturing employees.

Industrial division	Title	Major groups
H	Services	70-89
I	Public administration	91-97
J	Nonclassifiable establishments	99

Below the major group level, the SIC provides for 3-digit groups and finally for 4-digit industries. To illustrate—

Division D—Manufacturing

Major Group. Food and kindred products
 Industry group 202 Dairy products
 Industry 2023. Condensed and evaporated milk

The SIC system was developed to classify establishments as distinguished from similar systems used to classify companies or enterprises. An establishment is defined as a single physical location engaged in one of the industry categories of the SIC. (See pp. 1-9 for the application of this definition to collecting data in the economic censuses.)

This SIC system is the responsibility of an intragovernmental technical committee headed by the Office of Federal Statistical Policy and Standards, formerly part of the Office of Management and Budget, but transferred to the Department of Commerce in 1977. The system is used by all Federal Government agencies engaged in the classification of establishments. Many State and local governments and business concerns also organize their own records along SIC system lines in order to facilitate comparison with federal statistics.

The first SIC Manual was issued in 1939. For the manufacturing sector, the nucleus was the set of industry classifications developed over many years for use in the census of manufactures. A revised manual was issued for the manufacturing industries in 1945 and with minor modifications, used in the 1947 and the 1954 Censuses of Manufactures. In 1957, the SIC Manual was extensively revised for manufacturing industries and the historical comparability of some data was seriously affected. The introduction and appendixes to the 1958 census volumes discuss in detail this revision and its effects on census series. Only minor revisions of the SIC Manual were made between 1958 and 1967. The next extensive revision of the SIC Manual affecting the comparability of industry data was completed in 1972. These revisions and their impact on comparability appear in appendix C of the 1972 Census of Manufactures volumes.

Structure of the Manufacturing SIC System—For manufacturing, there are 20 2-digit SIC Major Groups (20 to 39) which are subdivided in 144 3-digit SIC Groups (201 to 399) and into 452 4-digit industries (2011 to 3999). The Bureau of the Census combined some small industries in order to publish data.

Most of the 452 manufacturing industries are defined in terms of specific groups of related products. Usually the products are made of similar materials and by similar processes and many are competitive but the SIC system does not necessarily bring together products which are close substitutes

in use and competitive in markets. In determining the boundaries of industries,⁵ it is essential that each industry comprise a group of establishments that are highly specialized in making products that define the industry (primary products) and that a large proportion of all the products be made in establishments classified in the industry. While similarity of product is most frequently the determining factor in defining an industry, some industries are defined in terms of the processes or equipment used regardless of the final product of the establishment. (Example: Industry 3361, Aluminium Foundries (castings).) A small number of industries are basically defined by material used as well as final product of the plant. (Example: Industry 2521, Wood Office Furniture, and Industry 2522, Metal Office Furniture.)

There are wide differences among industries in their purity—i.e., the extent to which the establishments classified in the industry:

- a. Account for the total production of commodities “primary” to the industry.
- b. Produce products or services “belonging” to other industries (that is, secondary products).
- c. Use similar materials or processes.

These variations are frequently construed to be shortcomings. However, these limitations in the classification structure arise from the inherent complexity of our economic system and from the variation in types of production that take place in individual establishments.

While the SIC system is the basis for aggregating census data, the data collected, in turn, provide the statistical basis for periodic critical evaluation of that classification system and its revision.⁶

No general-purpose system of industrial classification can satisfy all users of census data. Some business users are interested primarily in a narrow range of products which they and their competitors produce. Others are involved in a wide range of products that move through the same marketing channel. Others seek data relating to the consumers of one or more types of materials. Some are interested only in the data for highly specialized plants; others for plants producing a “full line” of products. Those studying productivity may require data for plants using the same techniques.

The large number of SIC industries provides the analyst with the “building blocks” for making useful approximations, even if specific data cannot be developed to resolve many of these problems. A single general-purpose system of classification can

only partially satisfy these diverse needs; a point is soon reached at which the adaptation of a system to serve one use better will reduce its ability (sometimes disproportionately) to serve an alternative use.

Accordingly, users of data frequently regroup detailed SIC industries differently from the 2- and 3-digit SIC categories. The Federal Reserve Board for many years has made combinations to stress such characteristics of products as durable, nondurable, consumer, producer, finished, intermediate goods, etc. Other public and private agencies also recombine the detailed classes. The 4-digit industries are more susceptible to allocation to such categories than the 2-digit SIC groups.

Subindustries—The Bureau of the Census frequently has further classified some of the basic 4-digit SIC industries into “subindustries.” Subindustries are employed where there are wide disparities in the input-output relationships (or operating ratios) of the plants in the industry because of differences in the degree of vertical integration, technology, methods of distribution, geographic location, types of materials used, etc. In about 61 manufacturing industries, subindustries were established for editing purposes and many were regarded as significant enough to be used for publication. For example, the bakery industry (SIC 2051) is subdivided into wholesale bakeries, chain-store bakeries, home-service bakeries, and retail multioutlet bakeries; and many apparel industries (major group 23) are subclassified into manufacturers, contractors, and jobbers.

To provide a further measurement of variations with 4-digit industries, the Bureau of the Census also subclassified establishments by the degree to which they produce the primary products or specific classes of primary products of the 4-digit industry into which they are classified. This is, in effect, a sub-industry classification based on the degree of product specialization which is published in table 5a of Volume II, Industry Statistics.

Definition of manufacturing—Manufacturing includes a wide range of activities as defined in the SIC Manual. Manufacturing is the mechanical or chemical transformation of inorganic or organic substances into new products. The assembly of component parts of products is also considered to be manufacturing if the resulting product is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills, which characteristically use power-driven machines and materials-handling equipment.

Manufacturing production is usually carried on for the wholesale market, for transfer to other plants of the same company, or to the order of industrial users. Typically, manufacturers do not sell directly to the household consumer, although some (for example, baking, milk bottling, etc.) sell, chiefly at retail, to household consumers through the mail, through house-to-house routes, or through salesmen. Some service-type activities (enameling, binding, platemaking, etc.) are included in manufacturing if they are performed primarily for trade; but are considered nonmanufacturing if they are performed primarily to the order of the household consumer. On the other hand, some manufacturing industries include business firms which perform only the entrepreneurial functions

⁵ Frequently, business analysts and other data users look at a group of products from more than one point of view. For example, modern high-speed computers are classified as office machines. This describes the purpose of the product. In a physical sense, however, such computers would be described as electronic devices. Similarly, paper bags, wooden boxes, glass bottles, tin cans, and steel barrels may all be classified as containers, or they may be individually grouped with other products of similar materials, such as converted paper products, wood products, glass products, etc.

⁶ See Industry Classification and Sector Measures of Industrial Production by James W. McKie, Bureau of the Census Working Paper No. 20, 1965, and Historical Comparability of Census of Manufactures Industries, 1929-1958 by Harold T. Goldstein, Bureau of the Census Working Paper No. 9, 1959.

of buying the materials and designing and marketing the product, but have the actual production done on contract (for example, apparel jobbers).

SIC classifies establishments—The SIC system is an establishment classification system, and the census of manufactures is conducted on an establishment basis. That is, a company with operations at more than one location is required to submit a report for each location. On the other hand, a company engaged in distinctly different lines of activity at one location is required to submit a separate report for each activity if the plant records permit such a separation and if the activities are substantial in size.

The requirement that distinct lines of activity at the same location be separately reported was applied only where the establishment produced and shipped significant amounts of products classified in different SIC industries. In widely varying degrees, many manufacturing establishments make products that fall into different SIC industries. Generally, the amounts involved are not significant enough to warrant the filing of separate reports, even if feasible. However, there are a number of locations at which large numbers of employees are engaged in activities defined in different industries of the SIC system. Frequently, companies organize their operations and their records separately for the diverse activities and report them as separate plants. When they do not do so on their own initiative, the Bureau of the Census requests separate reports if it appears that 100 or more employees are involved in each activity. For the most part, companies have cooperated and "split out" the different activities which would otherwise significantly distort the relationship of the industry and product statistics. Not infrequently, however, the two groups of products are made on the same production lines by many of the same employees and cannot be distinguished sufficiently in company records to provide establishment-type reporting.

The SIC system also recognizes special situations where otherwise separately classifiable activities frequently occur at one location. For example, the definition of Industry 2421, Sawmills and Planing Mills, recognizes that sawmills may include logging operations. Similarly, pulpmills operated in combination with papermills are included in one report.

Establishments included in census of manufactures—For the 1947 Census of Manufactures, the censuses have included only establishments with one employee or more. Prior to 1947, different criteria were used to determine if an establishment had to report in the census. In the censuses of 1921 through 1939, establishments with less than \$5,000 value of products were excluded. For 1899 to 1919, the limit was \$500. The change in the minimum-size criterion to an employment basis in 1947 did not appreciably affect the overall comparability of earlier census figures, except for the number of establishments.⁷

A sample survey of manufacturing plants with no paid employees was conducted in conjunction with the 1958 census. While there were nearly 52,000 establishments in this category in that year, they accounted for only about one-quarter of 1

percent of the total value of shipments of all manufacturing industries. The proportion was higher for certain industry groups such as lumber and wood products, and printing and publishing. Tabulation of IRS data for 1977 indicates that manufacturers with no paid employees continue to be of very minor importance. They contribute less than one half of 1 percent of the total value of shipments of all manufacturing industries.

Special treatment of very small establishments—Beginning with the 1967 census, an effort was made to relieve the very small establishments from the necessity of filing a census report. Approximately 120,000 small single-unit manufacturing firms identified as having less than 10 employees benefited from this procedure. Limited data on payrolls, sales, and industry classification from the administrative records of the Social Security Administration (SSA) and the IRS were made available to the Bureau of the Census for use in the 1967, 1972, and 1977 economic censuses. (These special arrangements safeguarded the confidentiality of both tax and census records.) Data other than payrolls and sales for these small establishments were estimated from historical industry ratios. The effect on industry aggregates is slight in most industries; for manufacturing as a whole, these small "administrative records" account for only 1.2 percent of the value added. Detailed product and materials data for these small establishments were not estimated; the entire value of product shipments and cost of materials was imputed to a "not specified by kind" (n.s.k.) category. If these establishments had been included in the 1972 Census of Manufactures, they were assigned the industry classifications to which they had been coded. If they had started business later, they were coded on the basis of brief descriptions of the general activity of the establishment as reported to the SSA. Where the description is incomplete or there are relatively fine lines of demarcation between industries or between manufacturing and nonmanufacturing activity, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product information. Therefore, the Bureau of the Census conducted a special classification survey in order to clarify the industry codes of some of the establishments in the administrative record file. All establishments without specific 4-digit codes and those where there could be significant misclassification between manufacturing and other sectors were sent such a questionnaire. Nevertheless, the total establishment counts in most industries should be viewed as approximations rather than precise measurements. The counts for establishments with 20 employees or more are far more reliable than the total number of establishments.

Auxiliary units—Manufacturing requires a wide range of diverse support activities. These activities include movement to the manufacturing plant, storage, the operation and maintenance of plant and equipment, the design of flow of work through the production process, and necessary arrangements for shipment of output to customers. Also included are a host of subsidiary activities associated with the operation of an establishment (for example, management and policy formation, product and market orientation, engineering and quality control,

⁷This point is discussed at greater length in the Introduction to the 1947 volumes.

recordkeeping and accounting, physical security of plant and equipment, and the like).

Support and subsidiary activities may be performed by personnel located at the manufacturing establishments or at a separate location serving one or more manufacturing locations of the same company. These separate locations are referred to as administrative offices and auxiliaries, where these activities are carried on at a different physical location or are performed for more than one plant, they are excluded from the figures for operating manufacturing establishments and are included in the data shown for administrative offices and auxiliaries. (See the description of the questionnaire used for these establishments, form NC-X6, in item 7.)

Border-line activities—The following types of activities, while having some of the characteristics usually found in manufacturing, are considered as nonmanufacturing and, therefore, are excluded from the census:

- a. Processing on farms when the raw materials are grown on the farm and the manufacturing activities (poultry dressing, milk and butter production, logging, etc.) are on a small scale without extensive use of paid labor. Also custom milling, egg hatching, cotton ginning, and similar activities closely associated with agriculture are excluded.
- b. Mineral preparation such as the crushing, screening, and concentrating of ores. However, mining performed as a secondary activity in conjunction with manufacturing is included in the census unless a separate report for the mining activity was filed; for example, stone and clay mining at cement, lime, and clay products plants.
- c. Custom work to the individual order of household consumers. Examples are custom tailoring, woodworking, lettering on monuments, setting of diamonds, and the making of orthopedic appliances.
- d. Repair and other service activities, except specified services performed "for the trade." Repair shops of railroads are also excluded.
- e. Production of coke "for own use" by establishments owned by public utility companies.

Census establishment-based data measures manufacturing as primary activity. In the census of manufactures, no attempt is made to measure the extent of manufacturing at locations which are not primarily manufacturing plants, such as retail establishments which sell most of their products on the premises directly to household consumers (retail bakeries,⁸ ice cream stores, etc.), or manufacturing by construction contractors at the site (for example, production of paving mixtures).

Conversely, it is not unusual for manufacturing establishments to engage also in some nonmanufacturing activities such as repair work, merchandising of products without further processing, and installation work. Ordinarily, these nonmanufacturing receipts are small in relation to the manufacturing

activities and, therefore, it is not difficult to determine that the establishments should be included in the manufactures area. However, if the nonmanufacturing activities account for a significant proportion of total receipts of an establishment, the classification of that establishment into the appropriate major economic sector is more difficult.

In the economic censuses, an establishment engaged in a combination of manufacturing and merchandising is assigned either to the manufacturing or the trade industries depending on which of these activities was estimated to account for the larger share of its "value added" or "income produced." This criterion, even though based on approximation, was considered preferable to treating each dollar of receipts from each type of activity equally in determining the primary industry, since manufacturing requires considerably more worker-hours, salaries and wages, and capital inputs per dollar of receipts than either wholesaling or retailing. However, in classifying establishments engaged in manufacturing and also in mining, repair work, installation, construction, or other nonmanufacturing services, dollar receipts were used as the basis of classification because these activities require substantially comparable input per dollar of receipts.

Product codes—The SIC coding system is designed to describe industries and operates in such a way that the definitions become progressively narrower with successive additions of numerical digits. There are 20 very broad 2-digit groups, 144 3-digit groups, and 452 4-digit industries. Based on the SIC Manual, the Bureau of the Census has developed a product coding system along similar lines which contains about 1,500 5-digit product classes and approximately 13,000 individual 7-digit products. (See "the classification of products and materials" below.) The 7-digit products and 5-digit product classes are considered the primary products of the industry with the same first four digits as the product code. For example, the 7-digit product code number 2023212 refers to canned evaporated milk. The first five digits of this code number, 20232, refer to the "product class" canned milk, and the first four digits, 2023, refer to the industry in which these products are made (the condensed and evaporated milk industry). The same system is applied to the coding of materials. The first four digits of a material code (for example, the code number 024111, whole milk used as a material) describe the industry that produces it; e.g., 0241, agricultural industry, dairy farms.⁹

This SIC-based system is simpler than other systems for the coding of industrial products and materials used, since there is a direct numerical relationship between commodities and industries. Complications occur in the few SIC industries defined in terms of processes or equipment used as well as products made. As an example, women's sweaters are produced in knitting mills (industry 2253) and also in cut-and-sew shops (industry 2339). To retain the industry-of-origin concept, therefore, it is necessary to assign different product code numbers to women's sweaters, depending on where they are made.

The SIC-based commodity classification is used in the Bureau of the Census' entire industrial statistics program, including

⁸ Separate data for retail bakeries with baking on the premises were included in the retail census publications.

⁹ See tables 6a and 7 in volume II.

monthly, quarterly, and annual surveys, and also in the census of wholesale trade. The Bureau of the Census also publishes data on imports and exports in terms of SIC-based categories as well as the traditional Schedule B and TSUSA systems.¹⁰

Primary and secondary products of establishments—An establishment is classified in a particular industry if its production of the primary products of that industry exceeds in value its production of products of any other single industry. The industry code assigned to the establishment is derived from a summation of values for 7-digit product codes to their 4-digit industry and the selection of the largest 4-digit value as the establishment's industry classification. However, as mentioned earlier, the industry classification of an establishment may be determined not only by the products it makes but also by the processes employed or materials used in making those products.

While some establishments produce only the primary products of the industry in which they are classified, it rarely happens that all the establishments in an industry specialize to this extent. Therefore, the general statistics (employment, payrolls, inventories, value added by manufacture, total value of shipments, capital expenditures, etc.) shown for an industry (tables 1 to 4, Volume II, Industry Statistics) encompass not only the primary activities of the establishments in that industry but also their secondary activities. On the other hand, the product statistics in tables 5a and 6a of the industry chapters measure the total output of specific products whether they are produced by establishments classified in the same industry as the product or not. For this reason, in relating the general statistics of an industry, especially the industry total value of shipments (tables 1 to 4 in Volume II, Industry Statistics), to the product statistics (table 6), the composition of the industry's output as shown in tables 5b and 5c should be considered. Table 5c is a matrix table in which the columns break down industry shipments into primary and secondary products and "miscellaneous receipts." The rows of the table show the amount that each industry produced of a given product class.

The extent to which industry and product statistics may be matched with each other is measured by the two ratios shown in table 5b which are computed from table 5c. The first of the ratios, called the primary product specialization ratio, is the proportion of product shipments (both primary and secondary) of the industry made up of primary products. The second, defined as the coverage ratio, is the proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

Degrees of integration—In many industries, establishments use a wide variety of processes and materials to make the products of the industry. An industry classification based on end products may include establishments which are vertically integrated and those which put only the finishing touches on an already highly-fabricated purchased item. For example, in the refrigeration industry, there are some establishments that are

almost completely integrated, producing the compressor and condensing unit, electric motor, and even the castings for those intermediate products, as well as the stamping of the case and the final assembly. In other plants, the condensing unit, the motor, and the case may be purchased and merely assembled into the finished product.

In some instances, nonintegrated plants have been placed in separate industry categories from the integrated plants. In many industries, the census provides separate statistics on departmental operations or on the production of intermediate commodities made and used in the producing plant. When an industry includes plants which ship a significant proportion of their output to other plants of the same company, separate figures are usually shown on the interplant transfers.

These differences in the integration of production processes, types of operations, and types of materials used, should be taken into account when relating the general items (employment, payrolls, value added, etc.) to the product and materials data. Where integrated operations are of consequence in an industry, that fact is pointed out in the explanatory text.

Industry code resistance—The production of many establishments is so evenly divided among two or more industry-determining product groups that the industry codes could change from year to year (industry codes can be based on less than half of the total value if there are three or more groups). In the ASM, plants had always been prevented from shifting back and forth among industries due to minor shifts in product mix in the years between censuses by the application of a "resistance formula" in assigning industry classifications. In census years, such resistance was not applied.

A resistance formula of the ASM type was first used in the 1963 Census of Manufactures. In the 1977 census, the formula was applied only to establishments included in the 1976 ASM sample panel with certainty (that is, included with a probability of "1"). In general, these certainty cases were establishments of companies with at least one manufacturing plant with 250 employees or more.

The formula recognizes the conflicting need to maintain continuity in the establishment composition of an industry to measure change and the need to allow establishments to be reclassified to measure the current composition of the industry.

In the 1977 census, the industry classification of a certainty establishment was allowed to change from that assigned in 1976 under one of the following conditions:

- a. The value of the 1977 primary products constituted 60 percent or more of its total value of product shipments.
- b. The value of the 1977 primary products, while less than 60 percent of the total, was at least twice the value of products which had determined the 1976 industry code.
- c. The value of the 1977 primary products, while not meeting either of the two above conditions, had been the largest group of products for at least two years, i.e., exceeded the value of the 1975 primary industry's products in both 1977 and 1976 by at least 20 percent.

¹⁰ Schedule B is the U.S. export classification while TSUSA is applied to imports.

Table F. Value Added by Manufacture for Regions, Divisions, and States: 1977

Region, division, and State	Value added by manufacture (million dollars)	United States, total (percent)	Region, division, and State	Value added by manufacture (million dollars)	United States, total (percent)
United States ¹	585,165.6	100.0	South Region--Con.		
Northeast Region.....	138,746.4	23.7	South Atlantic Division--Con.		
New England Division.....	35,586.9	6.1	West Virginia.....	3,880.2	.7
Maine.....	2,343.0	.4	North Carolina.....	18,230.6	3.1
New Hampshire.....	2,174.7	.4	South Carolina.....	8,186.1	1.4
Vermont.....	1,050.1	.2	Georgia.....	12,548.8	2.1
Massachusetts.....	16,348.6	2.8	Florida.....	9,255.1	1.6
Rhode Island.....	2,736.6	.5	East South Central Division.....	36,234.3	6.1
Connecticut.....	10,933.9	1.9	Kentucky.....	9,545.7	1.6
Middle Atlantic Division.....	103,159.5	17.6	Tennessee.....	12,663.4	2.2
New York.....	44,289.8	7.6	Alabama.....	8,405.9	1.4
New Jersey.....	22,852.8	3.9	Mississippi.....	5,619.3	1.0
Pennsylvania.....	36,016.9	6.2	West South Central Division.....	52,112.5	8.9
North Central Region.....	200,889.8	34.3	Arkansas.....	4,881.6	.8
East North Central Division.....	160,223.4	27.4	Louisiana.....	9,418.3	1.6
Ohio.....	43,054.7	7.4	Oklahoma.....	4,662.3	.8
Indiana.....	22,717.6	3.9	Texas.....	33,150.3	5.7
Illinois.....	40,279.1	6.9	West Region.....	84,910.6	14.5
Michigan.....	37,566.0	6.4	Mountain Division.....	13,620.4	2.3
Wisconsin.....	16,606.0	2.9	Montana.....	847.3	.1
West North Central Division.....	40,621.3	6.9	Idaho.....	1,430.0	.2
Minnesota.....	9,605.2	1.6	Wyoming.....	380.8	.1
Iowa.....	8,684.4	1.5	Colorado.....	4,471.8	.8
Missouri.....	13,041.9	2.2	New Mexico.....	733.5	.1
North Dakota.....	473.3	.1	Arizona.....	3,332.9	.6
South Dakota.....	611.6	.1	Utah.....	1,974.0	.3
Nebraska.....	2,867.1	.5	Nevada.....	495.2	.1
Kansas.....	5,337.8	.9	Pacific Division.....	71,245.1	12.2
South Region.....	160,581.7	27.4	Washington.....	8,955.0	1.5
South Atlantic Division.....	72,304.3	12.4	Oregon.....	6,138.0	1.0
Delaware.....	1,595.7	.3	California.....	54,862.4	9.4
Maryland.....	7,115.6	1.2	Alaska.....	504.2	.1
District of Columbia.....	610.2	.1	Hawaii.....	785.5	.1
Virginia.....	10,882.0	1.9			

¹Total value added differs slightly from summation of the individual States since a few establishments that could not be accurately coded to a State are included in the United States total.

5. GEOGRAPHIC CLASSIFICATION

Census divisions and regions—The 1977 Census of Manufactures measures industrial activity at the State, county, city, and standard metropolitan statistical area levels. In prior censuses, similar information was also provided for the traditional nine geographic divisions (e.g., New England, Middle Atlantic, etc.) and the four geographic regions (northeast, south, north central, and west).

The presentation of data for individual industries and industry groups at all these geographic levels has always created serious problems in protecting the confidentiality of individual company data. Consequently, it has frequently been necessary to set priorities as to what will be published (see item 21). In the past, the preference was given to publishing data for the broad geographic regions over States leading to greater suppression of industry detail at the State level. In recent years, there has been increasing interest in State information in preference to the broader regions. As a result, the 1977 Census of Manufactures gave first precedence to publishing State figures. A decision was also made to forego publication of any divisional and regional totals. This was desirable to avoid suppressing industry detail in one State that could have been published, in order to protect data for another State in the same division, that had to be

suppressed to preserve the confidentiality of a respondent's figures.

Thus, some summary tables for the nine geographic divisions and four regions that were published in prior censuses do not appear in this volume, of the 1977 census of Manufactures. (See table F for 1977 value added data for regions, divisions, and States.)

Standard metropolitan statistical areas—In addition to the data for the legally constituted geographic units (States, counties, and cities), all manufacturing totals are shown for approximately 280 SMSA's.¹¹ In the 1977 tables, detail for 2-, 3-, and 4-digit industries is shown for an SMSA if data for individual companies would not be disclosed, and the industry had at least 250 manufacturing employees. These are the same criteria as those used in the 1972 census. In censuses prior to 1967, detail had not been shown for SMSA's with under 40,000 total manufacturing employment, and only industry group figures were shown for SMSA's with 40,000 to 190,000 employees.

SMSA's are integrated economic and social units with a large volume of daily travel and communication between the central city (having 50,000 or more population) and outlying parts of

¹¹ See appendix A for a description of each SMSA.

Table G. The 50 Largest SMSA's Ranked by Value Added by Manufacture: 1977 and 1972

Standard metropolitan statistical area	Number of employees (thou-sands)	Value added by manufacture (mil. dol.)	1977 rank	1972 rank	Standard metropolitan statistical area	Number of employees (thou-sands)	Value added by manufacture (mil. dol.)	1977 rank	1972 rank
Chicago, Ill.....	884.3	27,542.1	1	1	Indianapolis, Ind.....	124.0	3,922.2	27	26
Los Angeles-Long Beach, Calif.....	825.5	24,701.8	2	2	Gary-Hammond-East Chicago, Ind.....	98.2	3,517.6	28	30
New York, N.Y.-N.J.....	796.6	19,878.3	3	3	Dayton, Ohio.....	106.5	3,261.0	29	29
Detroit, Mich.....	564.6	18,149.9	4	4	Toledo, Ohio-Mich.....	92.7	3,203.0	30	35
Philadelphia, Pa.-N.J.....	451.8	13,429.6	5	5	Denver-Boulder, Colo.....	106.4	3,068.5	31	36
Houston, Tex.....	210.1	9,844.4	6	11	Providence-Warwick-Pawtucket, R.I.-Mass.....	140.0	3,040.4	32	33
St. Louis, Mo-Ill.....	248.7	8,342.0	7	8	Portland, Ore.-Wash.....	99.4	2,951.6	33	40
Cleveland, Ohio.....	265.4	8,105.9	8	7	Columbus, Ohio.....	96.2	2,969.4	34	32
Newark, N.J.....	255.5	7,870.8	9	6	New Brunswick-Perth Amboy-Sayreville, N.J.....	80.5	2,945.2	35	31
Dallas-Fort Worth, Tex.....	269.9	7,869.1	10	13	Allentown-Bethlehem-Easton, Pa.-N.J.....	106.8	2,731.8	36	37
Boston, Mass.....	267.7	7,469.1	11	9	Beaumont-Port Arthur-Orange, Tex.....	38.3	2,626.3	37	(¹)
San Francisco-Oakland, Calif.....	193.3	6,817.2	12	14	Youngstown-Warren, Ohio.....	79.5	2,620.2	38	38
Rochester, N.Y.....	144.4	6,732.4	13	10	Grand Rapids, Mich.....	82.6	2,582.2	39	41
Pittsburgh, Pa.....	239.7	6,478.4	14	12	Phoenix, Ariz.....	84.6	2,558.6	40	44
Milwaukee, Wis.....	204.1	6,408.8	15	16	Hartford, Conn.....	87.0	2,317.0	41	43
Minneapolis-St. Paul Minn.-Wis.....	216.9	6,408.0	16	15	San Diego, Calif.....	79.1	2,173.9	42	49
San Jose, Calif.....	181.4	6,205.7	17	22	Memphis, Tenn.-Ark.-Miss.....	64.1	2,159.7	43	45
Cincinnati, Ohio-Ky.-Ind.....	160.2	5,645.9	18	17	Greenville-Spartanburg, S.C.....	104.8	2,129.7	44	42
Anaheim-Santa Ana-Garden Grove, Calif.....	177.5	5,280.9	19	23	Baton Rouge, La.....	24.1	2,075.5	45	(¹)
Baltimore, Md.....	165.9	5,169.5	20	18	Syracuse, N.Y.....	57.8	2,017.7	46	48
Buffalo, N.Y.....	140.3	4,735.5	21	19	Akron, Ohio.....	83.5	2,014.2	47	39
Louisville Ky.-Ind.....	106.9	4,440.7	22	20	Richmond, Va. ²	53.4	1,992.6	48	(¹)
Nassau-Suffolk, N.Y.....	155.9	4,370.3	23	25	Jersey City, N.J.....	72.2	1,983.4	49	34
Atlanta, Ga.....	128.7	4,222.8	24	27	Nashville-Davidson, Tenn.....	80.5	1,935.3	50	(¹)
Seattle-Everett, Wash.....	131.9	4,161.0	25	28					
Kansas City, Mo.-Kans.....	117.8	4,119.9	26	21					

Note: The Flint, Mich., SMSA, falls within the top 50 SMSA's but is excluded from this table to avoid disclosing figures for individual companies.

¹Not in the top 50 SMSA's.

²New Kent County added in 1977.

the area.¹² Each area (except in New England) consists of one whole county or more. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city. These areas were defined by the Federal Committee on Standard Metropolitan Statistical Areas for general-purpose use in presenting economic and social data. In the New England States, similar integration criteria have been applied in defining SMSA's, but on a city and town basis, because towns are regarded as the significant unit in this region of the country.

The requirement that each SMSA consist of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more

accurately defined in terms of smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis. Periodically, the SMSA's are redefined. While some changes can be made at any time, if there are serious reasons, the major restructuring of SMSA's occur after each census of population is completed. Appendix F describes the current SMSA's and the changes since 1972.

Each SMSA is designated by the name of the principal city of the area. In addition to the name of the principal city, the areas title may include one or two additional city names.

Value added by manufacture in all SMSA's accounted for 79 percent of the U.S. total in 1977. The relative importance of the 50 largest SMSA's in 1977 and their rankings in the 1972 and 1967 censuses are shown in table G.

¹²Each SMSA must include either (1) a city with 50,000 or more inhabitants, or (2) a city having a population of at least 25,000 which (a) with the addition of the population of contiguous places has a population density of at least 1,000 persons per square mile; (b) constitutes, for general economic and social purposes, a single community with a combined population of at least 50,000; and (c) includes a total population of at least 75,000 in the county or counties in which the city and contiguous places are located.

Standard consolidated statistical areas (SCSA's)—In many highly urbanized areas of the country, SMSA's tend to border on one another. For some purpose, it was desirable to treat them as one geographic area and the SCSA's were developed. Each SCSA includes two or more contiguous SMSA's which meet specific criteria of size, urban character, integration, and contiguity of

urbanized areas. As with the SMSA's, the SCSA's are defined by the Federal Committee on SMSA's of the Office of Management and Budget. Their number has increased from two in the 1972 census to 13 for 1977. All manufacturing totals appear in table 4 of each State chapter. Data for 2-, 3-, and 4-digit industries with 250 manufacturing employees or more are published in table 6.

Industrial counties—In addition to industry statistics for SMSA's, table 7 of each State report presents data by county for each

industry group (2- and 3-digit) and industry (4-digit) that had at least 450 manufacturing employees if it would not disclose figures reported by individual companies.

Cities with 450 manufacturing employees or more—Summary totals and industry detail at the 2-, 3-, and 4-digit levels are shown for individual cities with 450 manufacturing employees or more, provided the data do not disclose information for individual companies.

II. Methods

6. PLANNING AND PREPARATION

General—The Bureau of the Census has an obligation to meet public needs for timely and reliable information while holding costs and the burden on respondents to a minimum. During the planning stages of each economic census, the advice of trade and professional associations, Federal and State government agencies, individual companies, labor unions, and research and educational organizations is sought in an effort to reach both the users of data and the respondents who supply the basic figures. Simultaneously, the problems encountered in the previous censuses are studied, and improved methods of collection, processing, and tabulation are explored.

Mailing lists—Beginning with the 1954 economic censuses, the basic mailing lists have been obtained from IRS and SSA records. These records were also sampled to develop statistics for retail and service establishments with no employees. After the 1963 censuses, feasibility studies indicated that greater use could be made of the data in the IRS-SSA records. In the 1967 censuses, over 2,000,000 firms were exempted from the filing requirement, including 120,000 small manufacturers. Instead, census-type statistics for this group were developed from IRS-SSA records. In close cooperation with IRS and SSA, specific procedures for the use of individual tax returns that assured confidential treatment of them were developed and set forth in Executive Order No. 10911, dated January 17, 1961, and Treasury Decision No. 6547 of the same date. The records used were business income tax returns (IRS forms 1040C, 1065, 1120, and 1120S) and payroll tax returns (IRS form 941). The name and address, payrolls, and gross business receipts were obtained from these reports, in addition to the SIC industrial activity code assigned by SSA. Other census statistics for these small firms were imputed using industry average ratios of the data item to payrolls and sales.¹³

This procedure was repeated in the 1972 and 1977 economic censuses. In 1972, there was a concerted effort by the Bureau of the Census to improve the industry coding of the adminis-

trative record by mailing a nature-of-business inquiry to establishments whose industry codes could have been affected by the 1972 revision to the SIC Manual. A similar effort was made in 1977 to clarify the classification of firms which SSA had not been able to code precisely.

Content of questionnaires—As in previous censuses, the content of the 1977 questionnaires was developed in consultation with a large number of organizations and individuals, representing both the manufacturers who supply the data and those who use the statistics. Those consulted included Government agencies, individual firms, labor unions, the American Statistical Association, the American Economic Association, the American Marketing Association, the National Association of Manufacturers, and all National Manufacturers' Associations covering specific industries.

Many individual manufacturers and their trade associations were consulted about the content of the sections of the report forms dealing with the output of specific products. Drafts of the proposed 1977 product sections were circulated among 800 trade associations and about 4,000 manufacturing companies, both large and small. These draft report forms included new product detail reflecting suggestions received by the Bureau of the Census after the 1972 canvass. Small items (those valued at \$7.5 million or less) were not retained in the list unless they were needed to assure correct classification of other products or were of strategic importance. A restriction was placed on proposals for additional detail; it was stipulated that the 1977 value of any new product category should exceed \$20 million. The manufacturers were requested to comment specifically on the availability of the data requested in their ordinary records, and the appropriateness of the product descriptions and units of measure.

The thousands of comments and suggestions received in this clearance procedure and the decisions reached were forwarded to the Office of Federal Statistical Policy and Standards, along with the product sections developed by the Bureau of the Census as a result.

A final review was made by the Office of Federal Statistical Policy and Standards with the assistance of the Advisory Council on Federal Reports. The latter organization is a group of business executives such as controllers, economists, and market research directors, representing a cross section of all industries.

¹³ As discussed elsewhere in this introduction, the amount of imputation introduced by this procedure was only about 1 percent of the overall totals.

7. REPORTING FORMS

A representative selection of the reporting forms used in the census is reproduced in appendix D. The users of each of them are discussed below.

General forms—These forms were used in the economic censuses, generally, either as companywide reports or as reports for establishments whose classification was not known precisely in advance of mailing.

NC-X1, Report of Company Organization—This companywide report was used prior to mailing the 1977 census questionnaires to develop the directory of establishments operated by multiunit companies. A more detailed account of their use is given in Section 8, The Mailing Lists.

NC-X2, Listing of Additional Establishments—This form was included with the census of manufactures forms mailed to multiestablishment companies in order to obtain a list of establishments that were acquired after the NC-X1A was filed. These additional plants were classified, added to the NC-X1A directory list, and mailed the appropriate 1977 economic censuses report forms. Plants under construction but not in operation were requested to report the value of construction put in place during 1977 and the total gross book value of assets in place at the end of the year.

NC-X3, General Schedule—This questionnaire was designed to obtain information from small companies for which the industry code available in the SSA records was not precise enough to indicate which one of the standard census questionnaires should be mailed. The information provided on form NC-X3 was used to classify these companies by industry and tabulate their data in the appropriate census.¹⁴

NC-X6, Administrative Offices or Auxiliary Establishments—Many multiunit companies maintain separate establishments to provide centralized administrative management, or other supporting services for other establishments of the same company, but not for the general public or other companies. They were asked to complete form NC-X6 for those establishments. The form contained questions on the approximate number of employees engaged in such functions as centralized administration, research and development, warehousing, and other auxiliary activities, and on the cost of research and development work performed by these nonmanufacturing establishments. The respondent was also asked to describe the industry activity of the operating establishments serviced by the centralized office or auxiliary unit reporting on form NC-X6.

NC-K1, Company Summary Report—Each multiunit company with 250 employees or more received a form NC-K1, Company Summary Report, in addition to a specific questionnaire

for each establishment. The NC-K1 requested consolidated company totals for receipts, new capital expenditures, inventories, and fixed assets, which are published as part of the Bureau of the Census' Enterprise Statistics Program described in section I.

Census of manufactures forms—The questionnaire reproduced in the appendix, form MC-36B, is typical of the approximately 200 forms used for operating manufacturing establishments. Each of these forms was designed to be used for a specific group of industries. Since it is desirable to retain comparability in the annual survey of manufactures for establishments reporting in the sample, form MA-100 was substituted as the front sheet of the census form (e.g., MC-36B) to collect the information common to all industries. Whether or not form MA-100 was used, the inquiries on the 200 forms were identical except for the detailed questions on products shipped, materials used, and miscellaneous topics such as operations performed, equipment used, and delivery of products.

Short forms—Some industries include a large number of small-to medium-sized firms that account for a significant portion of the industry's output. Usually, these firms are not so small that the limited data in the administrative record files would meet the needs of the census. To obtain sufficient data, yet hold the reporting burden down for these smaller firms, special abbreviated short forms were designed. They obtain the key input and output statistics without the detail requested on the standard forms. A sample form is included in appendix D.

Annual survey of manufactures forms—Form MA-100 is the establishment report used in the ASM since 1949 (with modifications). The establishment's 1976 data were imprinted on the report form before mailing, thus aiding the respondent in following the instructions for the census. Item 11-A, "value of products shipped and other receipts," on form MA-100, corresponds to item 18 on the census forms such as MC-36B.

In years between censuses, the ASM collects data for broad classes of products; whereas, every 5 years, in the census, item 18 calls for information on individual product shipments.

Other related forms—Form CB-50F, Census of Distributive Trades Electrical Goods, which is reproduced in appendix D, is typical of the several forms used for wholesale establishments in the census of business. Some manufacturers operate their own wholesale establishments which the Bureau of the Census classifies as "manufacturers' sales branches and sales offices." The wholesale forms differed only in the kinds of products sold as listed in item 10. Item 18 provides the information needed to classify the establishment as a sales branch or sales office.

MC-171, Department of Defense Establishments, and MC-D4, Penal Institutions—These forms were used to collect information on government-owned and government-operated manufacturing establishments. They were used for two types of establishments:

¹⁴The use of form NC-X3 is also discussed in item B, Mailing Lists.

- a. Manufacturing facilities owned and operated by the Department of Defense.
- b. Prison industries (Federal, District of Columbia, and State).

The data were prepared with the cooperation of the Department of Defense, the Department of Justice, and the District of Columbia and State prison systems. For Department of Defense installations, information was provided on employment, worker-hours, payrolls, cost, and value of work done, by industry group and by State. For prison industries, however, only product data were requested. The data are presented in a special report included in volume I and are not included in the totals for operating manufacturing establishments.

8. MAILING LISTS

General—As discussed in item 6, the list of respondents for 1977 was obtained from IRS-SSA records. Since the IRS-SSA lists consist essentially of the names and addresses of companies rather than establishments,¹⁵ it was necessary to follow separate procedures for multiunit companies (those operating at more than one location).

The prec canvass—Multiunit companies were required to file at least one establishment report¹⁶ covering each location. In order to mail the appropriate questionnaires, it was necessary to determine the type of activity at each location operated by multiestablishment companies. The Bureau of the Census has conducted an annual update of its directory of establishments operated by large companies in which Report of Company Organization (form NC-X1)¹⁷ is mailed each year to multiunit companies.

All of these forms consist of a report on company affiliation and a list of the domestic establishments operated by the company. The company's establishments as identified in census records are prelisted and the respondents are asked to correct this list. They are also asked to describe new establishments not prelisted and indicate their approximate size.

Large multiunit companies are segregated for special handling because of possible overlaps and duplication. Many of these companies are active in retail and wholesale trade as well as in manufacturing. The reporting instructions are reviewed in discussions with officials of the accounting departments of

many of these firms to make certain that the procedure is understood and the establishments are properly described on form NC-X1.

Single-unit companies—The mailing lists for single-unit companies (those operating at only one location) were developed from an initial control file assembled from IRS and SSA records. Out-of-scope companies (those whose activities were not to be surveyed in the economic censuses) and those identified as multiunits in the multiunit directory were removed. A special survey of out-of-scope companies with more than 50 employees was conducted, in some industries, to make certain they should not be included in the census. Some names were added to the mailing list as a result. Single units with over 150 employees were mailed form NC-X1 to determine if they were multiunits.

The final step was to identify the small companies which were not to be mailed because census-type statistics were to be developed from administrative records. The remaining records constituted the mailing lists for single-unit companies.

General schedule—While these lists generally contained adequate industry information to determine the proper form for mailing, a number of the records did not have precise industry information associated with them. Form NC-X3, General Schedule, which is reproduced in appendix D was mailed to these companies. Since it was assumed that these companies were quite small, only a few key figures were requested. The completed reports were coded and included in the tabulations. If form NC-X3 indicated that the company was actually large, it was later requested to file one or more of the appropriate standard questionnaires.

9. COVERAGE AND ACCURACY

Since the list of companies obtained from IRS and SSA records was considered to be complete, no field coverage check was conducted. The prec canvass and other special procedures for multiunit companies described in item 8, Mailing Lists, and item 11, Data Collection, were designed to secure complete lists of establishments; thereby simplifying the IRS-SSA company list. Control totals, in terms of employment and payrolls of multiunit companies, were also used to verify the completeness of establishment coverage.

It was possible to compare statistics tabulated from the census of manufactures with the Bureau of the Census' Current Industrial Reports Series, or with data originating with other agencies and, thus provide a further confirmation of completeness and accuracy. These figures range from employment and wage totals compiled by the Bureau of Labor Statistics to detailed commodity output figures published by the IRS, the Fish and Wildlife Service, and the Department of Agriculture. In the industry reports in volume II, differences between the census of manufactures and other statistics are explained wherever possible. Census of manufactures comparability with broad measures such as national income, new capital expenditures, and production indexes are discussed elsewhere in this introduction. The Bureau of the Census' other procedures designed to improve the accuracy of the census data are discussed above in the items on data collection and processing.

¹⁵The SSA records for multiunit companies identify "reporting units," which in many instances correspond to census establishments. The differences are such, however, that it was found necessary to obtain up-to-date lists of establishments as described in this section. Also, the Bureau of the Census concept of a company differs from the IRS-SSA definition, since the census company includes all establishments under common ownership or control. In the IRS-SSA records, subsidiary corporations are often treated as independent companies.

¹⁶If two or more distinct lines of activity were carried on at one location, separate reports were obtained under some circumstances. (For a complete discussion, see "Establishment Basis of Reporting" in section 4.)

¹⁷This form is reproduced in appendix D.

A discussion of the valuation of intracompany shipments by multiunit companies is included in item 15.

10. GEOGRAPHIC CODING

Accurate and complete information on the physical location of each establishment is required in order to tabulate the census data by standard metropolitan statistical areas, counties, and cities. As in previous censuses, the post office address and ZIP code of the establishment were not always accepted as defining the physical location, but respondents were required to describe the actual location in terms of street address; city, town, or village; county; and State. For establishments located in rural territory, the name or number of the nearest highway was requested and the distance from the nearest town or other urban place.

In censuses prior to 1963, clerks assigned geographic code numbers to each establishment based on the description furnished by the respondent. This process was slow and required careful verification. Beginning with 1963, a computerized system was developed which assigned an area code number and a prefix symbol to the mailing address before the questionnaires were mailed. The prefix symbol indicated whether or not the mailing address was clearly acceptable as describing the physical location. If there was any question about its acceptability, the respondent's description was later carefully reviewed after the questionnaire was received. The assignment of tentative code numbers by the computer was based on extensive reference files containing nearly a million business names and addresses.

11. DATA COLLECTION

Although the greater use of administrative records in 1977 substantially reduced the number of companies canvassed directly, there remained nearly 2 million which were required to file, including about 205,000 manufacturers. Small manufacturers, for whom the administrative records sufficed, numbered about 145,000. The assembly of several hundred different questionnaires into mailing packages correctly labeled and coded, combined with the correct instruction booklets, was an extensive operation.

Most of the 1977 questionnaires were mailed by mid-January 1978 with a due date of February 15. The collection phase was completed by late July 1978.

Companies which did not return their questionnaires by the due date had to be reminded that their returns were overdue. In all, there were five routine followups. Telephone calls were made to the large companies to help with reporting problems and to request that the forms be completed and returned.

Estimates based on data from administrative records were included in the census tabulations for the relatively small number which had not responded by the closeout date in July 1978. Thus, reported or estimated data for all companies and establishments in the original mailing list (except those

determined to be inactive during 1977) were included in the final statistical results. A special effort was made to obtain actual returns from all large firms, so that the dollar volume of business represented by proxy returns was relatively very small.

12. DATA PROCESSING

General—The editing,¹⁸ coding, and tabulation of data for the 5 million establishments represented in the 1977 economic censuses was a complicated task. Automatic data processing and other advanced techniques were used in all phases.

The questionnaires were mailed from and returned to the Bureau of the Census office at Jeffersonville, Ind., where most noncomputer (that is, clerical) processing operations were performed. The returns were screened to identify major problems that could be resolved by routine correspondence with respondents. Acceptable data were placed on a key-to-disc system, and the encoded data sent to Washington, D.C. on a high-speed transmission system. The Washington, D.C. staff handled computer operations and all operations in connection with the use of IRS and SSA records.

Preliminary screening—After they were checked in and assigned geographic codes, the questionnaires were reviewed clerically to see that they conformed to certain minimum requirements before further processing. For multiunit companies, the sum of employment and payrolls reported on its establishment questionnaires was compared with the control totals received on IRS form 941. Questionnaires received on single-unit forms were reviewed to ascertain whether they had become multiunits through merger or acquisition. Questions arising in the screening operation were resolved by writing or telephoning the respondents. Complex problems were referred to the Washington, D.C. professional staff.

Computer editing—As in the 1972 Census of Manufactures, most of the review for consistency among data items and completeness was done on the computer. Average values and tolerance limits for key operating ratios (for example, cost of materials per dollar of shipments, payroll per employee, production-worker wages per hour, etc.) played a fundamental role in the editing process. More than half of all 4-digit SIC industries had one or more data cells changed by more than 5 percent as a result of the application of these programs.

A detailed description of the step-by-step processing procedures appears in the Bureau of the Census publication, *History of the 1977 Economic Census*. This volume describes the procedures followed in both the centralized overall processing and in the individual censuses such as manufactures.

¹⁸In data processing, the term "editing" means the review of information collected on questionnaires or from other sources, with the objective of locating and correcting erroneous entries.

III. Comments on Statistical Measures and Tables

(Explanations and definitions of the various measures of activity for which statistics are compiled in the census of manufactures are presented in appendix B. In the following text, the limitations and other characteristics of some of these measures are discussed, the content of the statistical tables is described, and comparisons with other statistical series are presented.)

13. EMPLOYMENT AND PAYROLLS IN ADMINISTRATIVE OFFICES AND AUXILIARIES

In the industry chapters of volume II, the data on employment and payrolls are limited to operating manufacturing establishments. In the summary tables and the area reports, the employment and payrolls of administrative offices and auxiliaries are included as well. The report filed for administrative offices and auxiliaries requested a description of the activity of the establishments that they serviced. However, the administrative offices and auxiliaries were coded only to the 2-digit industry group of the establishments they served, whereas the operating establishments were coded to a 4-digit manufacturing industry. In most of the tables with industry detail, the administrative offices and auxiliaries are shown as a separate industry group, but statistics for them by 2-digit industry appear in each volume in the general summary tables. As indicated in table H, the relative importance of administrative offices and auxiliaries has increased substantially in recent years because of a tendency to centralize functions formerly performed in manufacturing plants. Such functions include accounting (particularly where computerized), warehousing repair services, and miscellaneous others.

Table H. **Employment in Administrative Offices and Auxiliaries and in Operating Manufacturing Plants: 1977 and Earlier**

Census year	Employees in operating manufacturing establishments		Employees in administrative offices and auxiliaries		
	Thous-ands of em-employees	Percent change from previous census year	Thous-ands of em-employees	Percent change from previous census year	Percent of total employ-ment ¹
1977.....	18,516	+2.7	1,074	+8.0	5.5
1972.....	18,032	-2.5	994	+19.8	5.2
1967.....	18,492	+14.0	830	+14.3	4.3
1963.....	16,235	+5.3	726	+20.6	4.3
1958.....	15,423	-1.4	602	¹ +32.9	3.8
1954.....	15,645	(NA)	453	(NA)	2.8

(NA) Not available.

¹The apparent increase from 1954 to 1958 is believed to be somewhat overstated, because coverage of administrative offices and auxiliaries was more complete in the 1958 census.

Source: Census of Manufactures.

14. MATERIALS CONSUMED

Every establishment was requested to report the total cost of materials. In addition, quantity and cost information was collected for approximately a thousand specific materials. About 350 of these were "complete coverage" materials; i.e., every industry that consumed appreciable quantities of the material was canvassed so that the data would aggregate to at least 90 percent of manufacturing consumption. For the remaining materials, information on consumption was obtained only in those industries in which the materials were important inputs. Detailed consumption information was collected in item 17, the standard material inquiry; in item 18, the product inquiry (for items that were produced and consumed in the same plant); and in a few instances in a special inquiry. The resulting statistics are presented mainly in tables 6a and 7a of the industry chapters, in volume II.

Because American industry uses an enormous variety of materials, the choice of materials for which "complete coverage" consumption data (90 percent or higher) were obtained had to be strictly limited. The selection of a particular material for such coverage was based on the following criteria:

- The importance as measured by the total value of U.S. consumption of the material.
- The percentage of total consumption accounted for by manufacturing establishments.
- The availability of consumption information from manufacturers' records.
- Other factors such as the strategic importance of the material or the availability of historical data on the use of the material.

The "limited-coverage" materials were chosen, not only because they constituted important inputs for particular industries, but frequently because they provided information necessary to classify plants by SIC industry. In using the detailed data on materials consumed which appear in table 7 in the industry chapters of volume II, the following limitations should be noted:

- Materials were reported for the establishment as a whole and no attempt was made to ascertain how much of the material was used in each of various products. Thus, the industry totals appearing in table 7 include consumption in secondary products as well as primary products

of the industry. The extent of secondary production in each industry is measured by its specialization coverage ratio shown in table 5b of the industry chapters.

- b. Special attention should be paid to the codes ending in "000" and captioned "materials, parts, containers, and supplies, n.s.k." The amounts appearing on these lines are totals imputed for (1) establishments whose statistics were developed from administrative records, and (2) totals for establishments which returned report forms but failed to report their consumption in specific terms. Thus, for most industries, the data for a specific material are understated. A judgment on the statistical significance of the understatement may be made from the ratio of the value shown for the "n.s.k." (code 000) to the total of materials, components, parts, containers, and supplies for the industry.
- c. Establishments consuming less than a specified amount of material were not requested to report consumption of the material separately. For the majority of individual materials, the minimum amount was \$10,000. The use of this cutoff is not believed to have had a significant effect on the totals, although in 1972 a lower cutoff of \$5,000 was used.
- d. A total of "n.e.c." material code 970099 was collected on most forms and is published for each industry. This is the total cost of materials for an industry for which no material items were prelisted on the form. A sample survey, MA-131, 1977 Supplemental Survey of Materials Consumed, was conducted to provide material consumption estimates for the cost of materials reported in material code 970099 for selected industries. Results of this survey are shown in the subject report Selected Materials Consumed.

15. VALUE OF SHIPMENTS

Value of shipments of multiunit companies—Except for a few industries, the respondents were instructed to report net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Multiunit companies were instructed to report for each establishment as if it were a separate economic unit and, in particular, to report interplant transfers at their full economic value. Full economic value is defined as not only the cost of production but also a reasonable proportion of company overhead and profits. Generally, there is no advertising or other selling cost assigned by companies to interplant transfers, so it would be expected that the value per unit of such transfers would be less than that for commercial sales. To assure consistency in the valuation as the interplant transfer moved through the company, the plant receiving the transferred goods was instructed to include them in its cost of materials at the same value as at the shipping point, plus the cost of freight and other handling charges.

If the goods were transferred to sales branches, or sold through separate sales offices, the "f.o.b. plant" instruction implies that the value is somewhat lower than the final invoice value, because the cost of selling (mainly the cost of operating the sales branch or office) is excluded.

However, there is reason to believe that these instructions were not followed uniformly by all companies. In a record-keeping practice study of 54 multiunit companies conducted a few years ago, it was found that about half of them had reported interplant transfers of semifinished products at commercial or market prices, which tend to be somewhat higher than the "cost plus overhead and profit" requested in the census instructions. Where finished products were transferred to separate selling organizations, half of the companies interviewed valued the products leaving the manufacturing plant at their final or invoice price, or somewhat higher than the requested "f.o.b. plant" transfer value. It appears from this study and other observations that the value of shipments of products reported by multiunit companies tends to be overstated. If it was known that a substantial amount of a product tended to be transferred to establishments of the same company, separate quantity and value figures were requested on the amount transferred and the amount sold outside the company. Data on these shipments, the unit value of which tends to be different from the unit value for shipments outside the company, are presented separately in table 6a in the industry chapters of volume II.

Individual products—In the 1977 census program, information was collected on the output of approximately 13,000 individual product items.¹⁹ A "product" as used in the census of manufactures is the finest level of detail for which output information was requested. It is not necessarily synonymous with the term "product" as used in the marketing sense. In some cases, it may be much more detailed and, in other cases, it is more aggregative. For example, there is a long list of pharmaceutical preparations but a single item for all canned meats. If detailed production figures were available from other government sources or reliable private surveys, it was not considered necessary to request extensive detail in the census.

Some 6,000 of the product items were listed separately on the 1977 census report forms. Data for the remaining 7,000 products were obtained monthly, quarterly, or annually in commodity surveys of the current industrial reports program of the Bureau of the Census. Totals for the year 1977 for these items compiled in the commodity surveys are shown in table 6a, "products shipped," in the industry chapters of volume II. On the 1977 census forms, only an overall control total or "tieline" was obtained. In table 6a, both the tieline total and the total of the detail obtained in the current industrial reports are shown to indicate how closely the two surveys were reconciled.

Typically, both quantity and value of shipments were collected. However, physical quantity measures are not meaningful for some product lines, and for these, only value of shipments was collected. If a product was used to a large degree in the fabrication of other products within the same establishment in which it was produced, total quantities produced and often the quantities consumed were collected. Information on production, as well as shipments, was also collected for products for which there are significant differences between the two

¹⁹ See 1977 Census of Manufactures MC77-R-1, Numerical List of Manufactured Products.

because of wide fluctuations in finished goods inventories. Alternate measures of output of products, such as value of work done for products with long production cycles, were used as appropriate and feasible.

Classes of products—The individual products were aggregated into classes of products which were, in turn, grouped into the primary products of each industry. In the code structure, a 7-digit number is assigned to the individual product, a 5-digit code to the class of product, and a 4-digit code to the total primary products in an industry. (See section 4 for application of coding structure to the assignment of SIC codes for establishments).

The 13,000 product items in the 1977 census (including products from the current industrial reports program) were grouped into approximately 1,500 separate product classes. General similarity was the basis for the product class combinations within each 4-digit industry, i.e., kind or use of products, the manufacturing processes, type of markets, or materials used. The economic significance of the class was also taken into account; residual products of an industry were grouped when the dollar value of the products did not warrant separate classes.

Since preserving confidentiality of the data of respondent companies is a determinant of the amount of detail that can be published, the larger number of respondents included in the product-class shipments totals permits many more cross tabulations than do the 7-digit products. In the industry chapters of volume II, product classes by State appear in table 6b and by industry of the establishment producing them in table 5c. The latter table clearly shows the primary and secondary product mix of an industry, as well as the interrelationship between the 4-digit industry value of shipments and the 4-digit product group value of shipments.

It is possible to classify individual establishments not only by 4-digit industry, but also by the largest class of products they produce within that industry. Table 5a provides finer industry-type general statistics for establishments classified according to the degree to which they specialize in producing a specific class of products.

The class-of-product concept was incorporated by the Bureau of the Census into the 1947 Census of Manufactures after it developed the technique in the compilation of World War II production statistics. Product classes were used to collect product information in the first ASM conducted in 1949. The product classes tend to be redefined more frequently than the SIC on which they are based in order to keep abreast of the growth and decline of products.

Effect of use of administrative records on product data—As noted elsewhere in this Introduction, 140,000 small manufacturers were not mailed report forms and most of their detail was imputed based on limited information in IRS and SSA administrative records. All of the value of products of these small establishments were coded only to the 4-digit products of the industry in which they were classified. These product shipment are uniquely identified in table 6a. Also uniquely identified are product shipments of reporting companies which were described

too generally to code below the 4-digit level. Frequently, these were residuals in the company's records which the company felt it could not further break down. Table I, summarized by 2-digit group, reflects the importance of these "n.s.k." product shipments. Except in a few industries, they tend to be moderate in size—except in lumber, furniture, and printing (SIC 24, 25, and 27). The "n.s.k." of the respondents tends to be larger than that of the administrative records.

One factor tends to reduce the value of products, n.s.k., attributed to administrative record companies that affects table I, particularly. In some 4-digit industries, there is only one product category (an example is Industry 3273, Ready-Mixed Concrete). Administrative-record estimates for these products were treated as specific information and not tabulated as "n.s.k." headings.

In using the data for the specific 7-digit products shown in table 6a, the importance of the "n.s.k." has to be considered. The shipments of individual products tend to be understated somewhat in proportion to the size of the "n.s.k." Census-to-census comparison of 7-digit products should be made with caution if there has been a significant increase or decrease in the importance of the n.s.k.

16. DUPLICATION IN COST OF MATERIALS AND VALUE OF SHIPMENTS

The aggregates of the cost of materials and value of shipments figures for industry groups, and for all manufacturing industries, include large amounts of duplication since the products of some industries are used as materials by others. With some important exceptions, such as SIC 3312, Blast Furnaces and Steel Mills, this duplication is not significant within individual 4-digit industries. However, it is significant at the 2- and 3-digit industry levels because these group totals often include industries which are successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the total value of shipments of SIC major group 20 and the addition of pulpmills to papermills in group 26. Economists have estimated that the value of manufactured products exclusive of such duplication—the value of finished manufactures—tends to approximate two-thirds of the total value of shipments reported in the census of manufactures.

Because the amount of duplication of the cost of materials in the value of products figures cannot be measured with any degree of precision, caution is urged with the use of the value of shipments totals at the 2- and 3-digit industry group levels.

Even where there is no significant amount of duplication within an industry group, value of shipments figures are not the best measures of the relative economic importance of individual manufacturing industries or geographic areas. There are wide variations in the ratio of materials, labor, and other processing costs to value of shipments; both among industries and within the same industry. The manufacturing process contributes only a small amount to the sales value of some products; but a large amount to the final value of others. Value added by manufacture is a better measure of the net contribution of an industry to the Nation's overall output.

Table I. Value of Products, Not Specified by Kind: 1977 and 1972

Product group code	Total value of product shipments (mil. dol.)		Products not specified by kind											
			Total (mil. dol.)		Large companies (mil. dol.)		Small companies (mil. dol.)		Percent attributed to--					
									Total		Large companies		Small companies	
	1977	1972	1977	1972	1977	1972	1977	1972	1977	1972	1977	1972	1977	1972
Total.....	1,287,117.8	739,426.8	65,064.9	35,968.3	43,057.2	25,132.6	22,007.7	10,835.7	5.1	4.9	3.3	3.4	1.7	1.5
20.....	177,357.2	106,779.6	10,836.6	5,700.5	7,446.0	4,302.6	3,390.6	1,397.9	6.1	5.3	4.2	4.0	1.9	1.3
21.....	8,524.9	5,540.2	54.3	40.8	38.2	32.3	16.1	8.5	.6	.7	.4	.6	.2	.1
22.....	39,439.5	30,884.3	1,243.0	833.3	871.9	672.3	371.1	161.0	3.1	2.7	2.2	2.2	.9	.5
23.....	38,876.5	29,247.5	4,207.2	2,435.6	3,213.0	1,728.9	994.2	706.7	10.8	8.3	8.3	5.9	2.5	2.4
24.....	38,110.0	22,919.6	5,312.9	2,999.3	3,470.8	1,405.0	1,842.1	1,594.3	13.9	13.1	9.1	6.1	4.8	7.0
25.....	16,162.9	10,843.2	1,763.4	1,155.5	1,195.3	848.5	568.1	307.0	10.9	10.6	7.4	7.8	3.5	2.8
26.....	50,350.3	27,227.4	1,883.4	791.2	1,341.3	677.6	542.1	113.6	3.7	2.9	2.7	2.5	1.1	.4
27.....	46,692.4	29,347.5	6,091.9	3,433.1	4,167.9	1,891.6	1,924.0	1,541.5	13.0	11.7	8.9	6.4	4.1	5.3
28.....	109,724.4	53,038.9	3,453.6	1,567.3	2,122.4	1,140.7	1,331.2	426.6	3.1	3.0	1.9	2.2	1.2	.8
29.....	93,945.7	27,349.6	776.6	330.0	674.8	255.6	101.8	74.4	.8	1.2	.7	.9	.1	.3
30.....	38,237.2	19,963.5	3,297.5	1,360.3	2,508.3	1,048.3	789.2	312.0	8.6	6.8	6.5	5.2	2.1	1.6
31.....	7,122.3	5,472.0	594.7	335.0	488.2	242.4	106.5	92.6	8.3	6.1	6.8	4.4	1.5	1.7
32.....	33,780.9	21,139.7	1,756.8	1,042.1	1,164.2	678.7	592.6	363.4	5.2	4.9	3.4	3.2	1.7	1.7
33.....	99,044.8	71,058.4	1,469.7	1,225.0	822.7	1,069.8	647.0	155.2	1.5	1.7	.8	1.5	.7	.2
34.....	85,593.8	51,167.1	6,059.9	3,677.9	3,976.7	2,847.1	2,083.2	830.8	7.1	7.2	4.6	5.6	2.4	1.6
35.....	115,329.9	60,212.7	7,624.6	4,085.9	4,557.9	2,699.2	3,066.7	1,386.7	6.6	6.8	4.0	4.5	2.7	2.3
36.....	83,014.3	49,958.8	2,988.2	1,464.2	1,650.0	1,148.2	1,338.2	316.0	3.6	2.9	2.0	2.3	1.6	.6
37.....	161,607.6	91,522.0	1,999.9	1,413.5	1,084.9	1,126.8	915.0	286.7	1.2	1.5	.7	1.2	.6	.3
38.....	26,949.1	14,484.8	1,277.4	556.1	662.6	413.8	614.8	142.3	4.7	3.9	2.5	2.9	2.3	1.0
39.....	17,254.1	11,270.0	2,373.3	1,521.7	1,600.1	903.2	773.2	618.5	13.8	13.5	9.3	8.0	4.5	5.5

Note: These values are product shipments, irrespective of the industry in which the products were made and exclusive of miscellaneous receipts, and, therefore, differ from the industry group totals shown in the general summary tables. However, products primary to more than one product group are classified based on the industry in which they were made. Data for some product groups may differ slightly from the data collected in order to avoid disclosing operations of individual companies which have previously been withheld from the tables 6a of the 1977 and 1972 Censuses of Manufactures Industry Series.

17. VALUE ADDED BY MANUFACTURE

General—The first step in the calculation of value added is the conversion of the value of shipments (including resales and miscellaneous receipts) to value of production by adding the ending inventory of finished goods and work in process inventories and subtracting the beginning inventory. The cost of materials (including materials, supplies, fuel, electric energy, cost of resales, and cost of contract work) is then subtracted from this value of production to obtain value added.²⁰

Value added avoids the duplication in the value of shipments figure which results from the inclusion of the shipments of establishments producing materials and components, along with the shipments of establishments producing finished products. It does not exclude the cost of services purchased from other business firms, as does the concept of value added, used in the national income accounts.²¹ Nevertheless, it is considered to be the best value measure available in census data for comparing

the relative economic importance of manufacturing among industries and geographic areas.

Gross national product, national income, and value added—The national income accounts provide two measures of national output or value added originating in manufacturing: (1) gross national product (GNP), or, more precisely, gross domestic product (GDP),²² and (2) national income without capital consumption adjustment. These two measures are statistically different and neither is completely comparable to census value added.

GDP originating in manufacturing is the net value of the output of goods and services produced in the U.S. at market prices before deductions for depreciation charges and capital consumption allowances. It differs, in part, from the census value added since it includes indirect business taxes (e.g., sales, excise, and property). Excise and sales taxes are excluded from the f.o.b. census value of shipments and, thus, from census value added. Property taxes are part of the cost of doing business included in census value added, since only the cost of materials is deducted from f.o.b. shipments. A greater difference between GDP and census value added rests in the exclusion of purchased business services from GDP, but not from census value added. Both GDP and census value added include the basic factor costs of production—labor costs, property costs including depreciation, and profits. Depreciation in the two series is calculated differently, however. The census collects depreciation as carried on the books of the establishment. Thus, it tends to be the depreciation

²⁰ For a few industries (for example, ship building) where value of work done is substituted for value of shipments, no adjustment is made for change in inventories. In a few other industries where value of production is collected, the inventory adjustment is made only on the basis of change in work-in-process inventories.

²¹ Collection of data on the cost of purchased business services at the plant level presents many problems. Advertising by multiunit companies, for example, is frequently charged at the company level and the cost either not allocated to plants or, if allocated, are only included as part of a broader company overhead category. National income data, on the other hand, are compiled, in part, from company rather than plant data, such as the IRS Statistics of Income in which advertising is presented as a separate cost item based on company reports.

²² Gross national product is the market value of goods and services produced by labor and property supplied by *Residents* of the United States. Gross domestic product is the goods and services attributable to labor and property located within the United States.

charged against the original purchase price of the plant or equipment on a tax return basis. In calculating GDP, these tax return allowances are adjusted to account for the economic service lives, straight-line depreciation, and replacement cost.

In compiling the national accounts, it is necessary to rely on two different sources of data: (1) establishment-based data similar to the census for labor income, and (2) company-based data for profit and other company level income and cost charges. In estimating the GDP for manufacturing, the property-type incomes, interest, depreciation, and profit have been reestimated to an establishment basis by the Bureau of Economic Analysis (BEA). Thus, conceptually, both the GDP and value added tend to be on a comparable establishment-industry basis.

In the national accounts, 2-digit detailed statistics within manufacturing are compiled only on a national income basis, without the capital consumption adjustment. National income differs from GDP by the exclusion of indirect business taxes and capital consumption allowances, but before the capital consumption adjustment. Unlike GDP, it remains a mixture of establishment-based data and company-based data for profits and company-type costs. This results in the inclusion in national income of the net value added created by nonmanufacturing establishments of companies primarily engaged in manufacturing, but the exclusion of value added created by manufacturing plants of primarily nonmanufacturing companies. It is thought that this tends to raise the national income attributed to manufacturing. This effect can be seen in the petroleum and coal products industry group where nonmanufacturing activities are so significant that national income exceeds value added (see tables J and K).

Table K provides a year by year comparison of GDP and national income to value added. GDP tends to be 10 to 20 percent lower. In recent years, there are some erratic variations in these relationships. In part, this is thought to be the result of the different treatment of the change in inventory that is used in the two series. The census inventory figures are book value inventories and, thus, a mixture of last-in-first-out (LIFO) and first-in-first-out (FIFO) and other historic accounting methods. In the national income accounts, these inventories are converted to current prices comparable to the prices used to value the GDP, and, thus, the change in inventories is on a current-priced value consistent with sales. Significant differences occur in the change in book value and currently-priced inventories in years of rapidly changing prices. The magnitude of these differences can be partially judged by the size of the inventory valuation adjustment used by BEA (see table L).

Reconciliation of GDP and value added—In recent years, the census and the annual survey of manufactures have been obtaining data on some of the residual costs included in census value added. As a result, it is possible to reconcile in more detail the differences between GDP and value added in manufacturing. In table M, the census value added, at \$585.2 billion, exceeded GDP at \$462.4 billion. When indirect business taxes (other than property taxes) are deducted from GDP, it drops to \$444.0 billion, or \$141.2 billion less than census value added. The labor components of the two series are reasonably close, although not identical. Census depreciation, on a book value basis, however,

Table J. **Comparison of National Income Originating and Value Added by Major Industry Group: 1977 and 1972**

(Billion dollars)

SIC code	Industry group description	National income originating ¹		Value added by manufacturing		Column A divided by column C	Column B divided by column D
		1977	1972	1977	1972		
		(A)	(B)	(C)	(D)	(E)	(F)
	Manufacturing.....	411.5	252.3	585.2	354.0	.70	.71
	Nondurable goods.....	162.9	98.3	246.9	149.5	.66	.66
20	Food and kindred products.....	33.1	20.5	56.1	35.6	.59	.58
21	Tobacco manufactures.....	2.8	1.7	4.3	2.6	.65	.65
22	Textile mill products.....	12.3	8.4	16.1	11.7	.76	.72
23	Apparel and other fabricated textile products.....	13.7	9.8	19.7	13.5	.70	.73
26	Paper and allied products.....	15.5	9.5	22.2	13.1	.70	.73
27	Printing, publishing, and allied industries.....	21.0	13.5	32.0	20.2	.66	.67
28	Chemicals and allied products.....	30.8	18.2	56.7	32.4	.54	.56
29	Petroleum refining and related industries.....	18.7	6.7	16.4	5.8	1.14	1.16
30	Rubber and miscellaneous plastics products.....	12.2	7.7	19.7	11.7	.62	.66
31	Leather and leather products.....	2.8	2.2	3.7	2.9	.76	.76
	Durable goods.....	248.6	154.0	338.3	204.6	.73	.75
24	Lumber and wood products, except furniture.....	13.2	8.3	16.2	10.3	.81	.81
25	Furniture and fixtures.....	6.1	4.4	8.9	6.1	.69	.72
32	Stone, clay, and glass products.....	13.0	8.7	19.1	12.6	.68	.69
33	Primary metal industries.....	28.6	17.9	37.6	23.3	.76	.77
34	Fabricated metal products.....	31.7	19.4	45.5	26.9	.70	.72
35	Machinery, except electrical.....	47.9	27.7	67.2	37.6	.71	.74
36	Electrical machinery.....	36.4	22.6	50.4	30.6	.72	.74
19 ²	Motor vehicles and equipment.....	33.7	20.1	64.3	39.8	.82	.83
37	Other transportation equipment.....	18.9	13.1				
38	Instruments.....	11.9	7.2	18.7	10.6	.63	.68
39	Miscellaneous manufacturing industries.....	7.1	4.6	10.3	6.8	.69	.68

¹Source: Survey of Current Business, July 1970; July 1979.

²This major group was recoded to major groups 34, 36, 37, and 38 in the 1972 SIC revision.

Table K. **Comparison of Gross Domestic Product, National Income Originating in Manufacturing, and Value Added by Manufacture 1977 and Earlier Years**
(Billion dollars)

Gross domestic product	Gross domestic product originating in manufacturing ^{1 2}	National income originating in manufacturing ^{1 2}	Value added by manufacture	Column A divided by column C	Column B divided by column C
	(A)	(B)	(C)	(D)	(E)
1977.....	462.4	411.5	585.2	.79	.70
1976.....	410.4	366.6	511.5	.80	.72
1975.....	358.2	317.7	442.5	.81	.72
1974.....	340.7	301.4	452.5	.75	.67
1973.....	326.1	285.3	405.6	.80	.70
1972.....	292.5	252.3	354.0	.83	.71
1971.....	265.6	226.5	314.1	.85	.72
1970.....	252.2	215.1	300.2	.84	.72
1969.....	256.7	221.9	304.4	.84	.73
1968.....	242.8	211.0	285.1	.85	.74
1967.....	222.3	193.7	262.0	.85	.74
1966.....	216.6	189.7	250.9	.86	.76
1965.....	197.7	171.3	226.9	.87	.76
1964.....	179.4	154.5	206.2	.87	.75
1963.....	167.4	143.8	192.1	.87	.75
1962.....	157.9	136.0	179.1	.88	.76
1961.....	144.4	125.0	164.3	.88	.76
1960.....	143.8	125.1	164.0	.88	.76
1959.....	141.3	124.3	161.5	.87	.77
1958.....	123.8	107.9	141.5	.87	.76
1957.....	131.4	116.3	147.8	.89	.79
1956.....	126.8	113.2	144.9	.88	.78
1954.....	106.4	94.7	117.0	.91	.81
1947.....	66.2	59.6	74.3	.89	.80
1939.....	(NA)	18.1	24.5	(X)	.74
1929.....	(NA)	21.9	30.6	(X)	.72

(NA) Not available. (X) Not applicable.

¹Source: Revised estimates of gross domestic product by major industries, Survey of Current Business, July 1978, p. 28; National Income and Product Accounts.

²In comparing gross domestic product and national income originating in manufacturing with value added, the role of change in inventories must be recognized. Census value added is value of shipments less the cost of materials adjusted for the change in book value inventories (finished goods and work in process in most industries.) Gross domestic product and national income originating in manufacture include the change in business inventories as part of gross private domestic investment. In the National Income Accounts, the book value change in inventories is adjusted for change in prices to convert it to prices similar to those used to measure the value of output. This adjustment is referred to as the inventory valuation adjustment. In periods of significant inflation, such as 1974, this adjustment can be substantial and create a slower year-to-year growth in gross domestic product originating than in value added in manufacturing, so there is a drop in gross domestic product and national income originating as a percent of value added in manufacturing. In periods of stable prices, the movements of the two inventory series usually are similar.

³Value added for 1947 and earlier years is unadjusted.

Table L. **Change in Manufacturing Inventories: 1977**

(Billion dollars)

Item	Value
Change in book value inventories (census).....	\$13.4
Inventory valuation adjustment.....	-8.4
Change in inventories (gross national product).....	5.0

Note: In calculating gross national product, the Bureau of Economic Analysis uses the change in total inventories. In compiling value added, the Bureau of the Census typically uses finished goods and work in process inventories only. In 1977, these inventories were \$9.3 billion compared with total inventories of \$13.4 billion.

Source: U.S. Department of Commerce, Bureau of Economic Analysis.

is less than the GDP capital consumption allowance, adjusted for economic service lives, straight-line depreciation, and replacement cost. Census book-value depreciation was \$26.7 billion, the adjusted GNP capital consumption allowance, \$40.0 billion. After measurable labor costs and depreciation were deducted, unexplained census value was \$231.4 billion com-

pared with an explained GNP of \$81.4 billion. Census has not been able to measure all the remaining components of value added, especially those parts which are company-type charges and profits. In 1977, information was collected on rentals and cost of communication services, and maintenance and repair purchased from other companies, a total of \$22.4 billion, leaving the unexplained portion of value added at \$209.0 billion. If the GDP estimates of \$9.9 billion for property taxes and \$71.4 billion for profits and interest payments are applied to this, there is a final unexplained portion of value added amounting to \$127.7 billion.

This residual is attributable to company overhead other than central office payroll, e.g., company-level depreciation, business taxes, and purchased services (advertising, legal, accounting, and other professional services, patents, royalties, etc., not readily measurable separately at the plants).

18. CAPITAL EXPENDITURES AND GROSS ASSETS

Capital expenditures—The manufacturers were instructed to report expenditures of the type chargeable to fixed assets

Table M. COMPARATIVE STATISTICS ON CENSUS VALUE ADDED AND GROSS DOMESTIC PRODUCT: 1977

(Billion dollars)

Item	Census value added	GDP
Total.	—	462.4
Less: Indirect tax (except property business and not subsidies) ¹	—	18.4
Equals.	¹ 585.2	444.0
Less: Compensation of employees total . .	327.1	322.6
Census payrolls of operating plants	242.0	—
Census payroll supplements of operating plants.	49.9	—
Census payrolls of central offices and auxiliaries	² 22.0	—
Census payrolls of sales branches offices.	² 13.2	—
Equals.	258.1	121.4
Less: Additional cost measured by census of manufactures.	49.1	40.0
a. Included in GDP:		
Capital consump. allowance ³	26.7	40.0
b. Excluded from GDP.	22.4	—
Purchased communication service	3.6	—
Purchased maintenance and repairs	11.9	—
Rental payments, building and equipment	6.9	—
Equals: Residual costs included in census value added	209.0	81.4
Less: Costs or incomes assumed to be equal to those measured in GDP. . .	93.6	81.3
Property tax.	9.9	9.9
Interest and profit type income	71.4	71.4
Difference between census book value depreciation and GDP depreciation ³	12.3	—
Equals: Remaining costs in value added (company overhead, other than payrolls included above: e.g., company-level depreciations, business taxes, and services purchased by company or directly by plants (advertising, legal, accounting, and other professional services; communications, patent fees, royalties, travel costs, etc.)	115.4	(.1)

¹ Census measures value of shipments exclusive of sales and excise taxes. Property taxes are a cost included in value added.

² There is strong evidence that most companies include the payroll of administrative offices and auxiliaries and all sales offices in setting the f.o.b. value of shipments from their manufacturing plants. Those costs are, thus, included in value added. Many companies also indicate that they include the cost of sales branches, although this may not be universally true (see "value of shipments" in text).

accounts, for which depreciation reserves are normally maintained. Actual capital outlays during the year were requested, not the final value of equipment put in place or structures completed during the year.

The Bureau of the Census estimates of capital expenditures tend to be lower than those published by BEA in its quarterly survey of expenditures for plant and equipment. In addition to normal sampling variation, a major source of difference rests in the scope of the two series. Census data relate only to manufacturing establishments.

The BEA series relating to manufacturing includes all establishments of manufacturing companies, nonmanufacturing as well as manufacturing, but excludes manufacturing establishments of companies that they have classified as chiefly nonmanufacturing. This difference in the two series is particularly important in the petroleum industry where company expenditures for developing new wells and new distribution facilities are ordinarily much larger than their capital expenditures at refineries. The BEA and Census data for recent years are shown in tables N and O.

Table N. Expenditures for New Plant and Equipment—BEA Series and Census: 1977 and Earlier Years

(Billion dollars)

Year	BEA-series ¹	Census (census of manufactures and ASM) ²	Column B divided by column A
	(A)	(B)	(C)
1977.	69.2	47.5	.69
1976.	59.9	40.5	.68
1975.	54.9	37.3	.68
1974.	53.2	35.7	.67
1973.	42.4	27.0	.64
1972.	35.4	24.1	.69
1971.	33.6	20.9	.62
1970.	37.0	22.2	.60
1969.	36.3	22.3	.61
1968.	32.3	20.6	.64
1967.	32.3	21.5	.67
1966.	31.4	20.2	.64
1965.	25.4	16.6	.65
1964.	21.2	13.3	.63
1963.	17.3	11.4	.66
1962.	16.0	10.0	.63
1961.	15.5	9.8	.63
1960.	16.4	10.0	.61
1959.	13.8	9.3	.67
1958.	13.0	9.6	.74
1954.	12.0	8.2	.68
1947.	8.7	26.0	.69

¹Source, U.S. Department of Commerce, Survey of Current Business, October 1980.

²Excludes data for establishments under construction but not yet in operation.

³Capital consumption allowances in GDP and depreciation as collected in the census are not completely comparable. Depreciation reported in the census is that carried on the books of the establishment and is charged against the original purchase cost of the assets. In the GNP accounts, a "capital consumption adjustment" is made to place the depreciation more on a replacement cost basis. Specifically, it is "the tax-return-based capital consumption allowances, less capital consumption allowances, that are based on estimates of economic service lives, straight-line depreciation, and replacement cost."

Source: Department of Commerce, Bureau of Economic Analysis, and Bureau of the Census.

Table O. **Expenditures for New Plant and Equipment—BEA Series and Census of Manufactures, by Industry Group: 1977**

(Billion dollars)

Industry groups	BEA series ¹		Census of manufactures		Census as percent of BEA	
	1977	1972	1977	1972	1977	1972
All manufacturing.....	69.2	35.4	47.5	24.1	.69	.68
Durable goods.....	34.0	18.1	24.4	12.7	.72	.70
Primary metals.....	5.4	2.4	4.5	2.1	.83	.88
Fabricated metal.....	2.5	1.4	2.6	1.3	1.04	.93
Electric machinery.....	4.7	2.8	2.9	1.4	.62	.50
Machinery, except electric..	6.6	3.2	4.4	1.9	.67	.59
Transportation equipment....	9.1	4.4	4.7	2.7	.52	.61
Stone, clay, and glass.....	2.2	1.3	1.9	1.2	.86	.92
Other durables.....	3.5	2.6	3.4	2.1	.97	.81
Nondurable goods.....	35.2	17.3	23.2	11.4	.66	.66
Food and beverages.....	5.1	3.3	4.2	2.4	.82	.73
Textiles.....	1.3	1.1	1.2	1.1	.92	1.00
Paper.....	3.6	1.5	3.3	1.3	.92	.87
Chemicals.....	8.1	3.4	8.2	2.7	1.01	.79
Petroleum.....	12.7	4.8	2.3	1.2	.18	.25
Rubber.....	1.7	1.0	1.6	1.1	.94	1.10
Other nondurables.....	2.7	2.2	2.4	1.6	.89	.73

¹Source: U.S. Department of Commerce, Survey of Current Business, October 1980.

Gross value of fixed assets—In addition to reporting capital expenditures during the year, the manufacturers were requested to report the original cost value of fixed assets (structures and machinery and equipment) in place at the end of the year, along with depreciation and retirements during the year. This series, however, is based on reports filed in the ASM sample. It is conceptually comparable with the capital expenditures data. As the census capital expenditures series differs from the BEA series, so the census gross assets series will differ from similar series based on company level reports, i.e., those appearing in the IRS Statistics of Income and the FTC Quarterly Financial Report of Corporations. Since the census assets series is also based on sample estimates from the ASM, it is subject to a sampling error. (See appendix B for more complete definitions of terms.)

19. INVENTORIES

The value of end-of-year inventories held by each manufacturing establishment was obtained for each year. Separate information was requested for—

- Finished goods,
- Work-in-process, and
- Materials, supplies, fuel, and other inventories.

A measure of the changes in inventories from the beginning to the end of each year is essential to the conversion of value of shipments during the year to value of production, and, therefore, to the calculation of value added. The ratios of inventories to shipments at different times are also used in analysis of trends and business-cycle movements. For the best use of all of these measures, the inventories should be valued in the same prices as the shipments. Census inventory statistics have some limitations in these uses.

The inventories, as collected currently and in the past, have been the inventories as carried in the books of each respondent. In aggregating those inventories and calculating inventory changes, census procedures make no adjustments for the different methods of inventory valuation used by the respondents. Change in inventories and the relationship of inventories to shipments can vary significantly depending on whether last-in first-out (LIFO) or some historical method such as first-in first-out (FIFO) is used. These differences can become very significant in periods of rapid- and large-price changes. In recent years, the Bureau of the Census has been obtaining information on the preparation of inventories valued by the different accounting methods, both in its monthly surveys and the annual survey of manufactures. Some results have been published in the monthly Manufacturers' Shipments, Inventories, and Orders survey but none for the ASM. Considerable difficulty has been encountered in obtaining results of publication quality because of the complexity of the accounting at the establishment level and corporate level in large companies. Unofficial results have been made available to BEA to assist them in their adjustment of book value inventories to current and constant prices for use in the national income accounts. Some of the anomalies in the census value added and the national income originating in manufactures are due to the different treatment of inventory change in the two series.

In using inventory data by stage of fabrication for all industries at the industry level, it should be noted that an item treated as a finished product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished-product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and all manufacturing which are merely aggregates of figures reported by establishments in specified industries.

For a few industries in the food group, there are special problems in the handling of inventories by stage of fabrication. These are industries in which the products are aged. Included among such types of products are stemmed and dried tobacco, cheese, and whiskey. It is not clear whether such products should be treated as finished-goods inventories or as work in process while in storage. In all these industries, substantial finished goods inventories have been reported. These data have been summarized in the inventory tables in a consistent manner for all of the years included in this report.

20. PLANT SPECIALIZATION

As discussed in item 4 above, the primary products of a plant are those which determine its industry classification; all other products are referred to as secondary products. The value of a plant's primary products in comparison to its total production is referred to as its degree of specialization. For each plant, two measures of specialization were computed:

- A 4-digit primary product-specialization ratio, which is the sum of the values of all the plant's primary products divided by the sum of all its primary and secondary products.

- b. A 5-digit primary product-class specialization ratio, which is the sum of the largest 5-digit product-class value divided by the sum of its primary and secondary products (the miscellaneous receipts of the establishment were not included in these calculations). For example, assume that an establishment reported the following:

Total value of shipments and other receipts	\$1,000
Miscellaneous receipts (resales, etc.)	15
Total value of products shipped	985
32731, Concrete pipe products	100
32722, Precast concrete products	785
32730, Ready-mixed concrete	100

This plant would be coded into Industry 3272, Concrete Products, with a primary product specialization ratio of 90 percent ($\$885 \div 985$); it would be subclassified into the 5-digit Class 32722, Precast Concrete, with a primary product class specialization ratio of 80 percent ($\$785 \div 985$).

21. CONFIDENTIALITY

The Bureau of the Census is prohibited by law from publishing any statistics that disclose information reported by individual companies. In suppressing figures to avoid disclosing information of individual companies, individual States are given precedence over geographic regions and divisions. This is an innovation for 1977, since in prior censuses the larger geographic areas were given precedence. As a result of this change in philosophy, it has become more difficult to produce industry detail for the larger geographic areas and data for these areas are no longer published. States are given precedence over standard metropolitan statistical areas; standard metropolitan statistical areas over counties; and counties over cities.

In tables showing industry detail, major industry group (2-digit) totals take precedence over industry group (3-digit) totals which, in turn, take precedence over individual (4-digit) industries. Similarly, in product tables, 4-digit product groupings take precedence over 5-digit product classes and the latter over individual 7-digit products.

Such order of precedence was used because:

- It was considered preferable to show State data for an industry, even at the cost of withholding data for a region. In recent years, there seemed to be more need for and use of data for individual States than for the larger regions—especially since many regional development programs encompassed clusters of States different from the standard regions and divisions.
- By giving preference to industry-group statistics over individual industries within each State, the extent to which individual States can be compared within the SIC industry classification framework is greatly increased.

22. MICROFICHE AND COMPUTER TAPES

Data in many tables in the census volumes are available on microfiche and on computer tape.

Data in this publication may differ slightly from the industry and area reports previously published. These differences are due to corrections which were made for minor errors identified after the industry and area reports were issued. This report reflects these corrections.

One major data series, the Location of Manufacturing Plants, will be available only on computer tape. This series presents the number of establishments by employment size class by 4-digit SIC industry codes for States, counties, and places of 2,500 inhabitants or more. These data are available for both State and county by industry and State and place by industry.

Microfiche reports and computer tapes are sold by Customer Services (Microfiche/Tapes), Data User Services Division, Bureau of the Census, Washington, D.C. 20233.

23. SPECIAL TABULATIONS

Special tabulations of data collected in the 1977 Census of Manufactures may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Industry Division, Bureau of the Census, Washington, D.C. 20233.

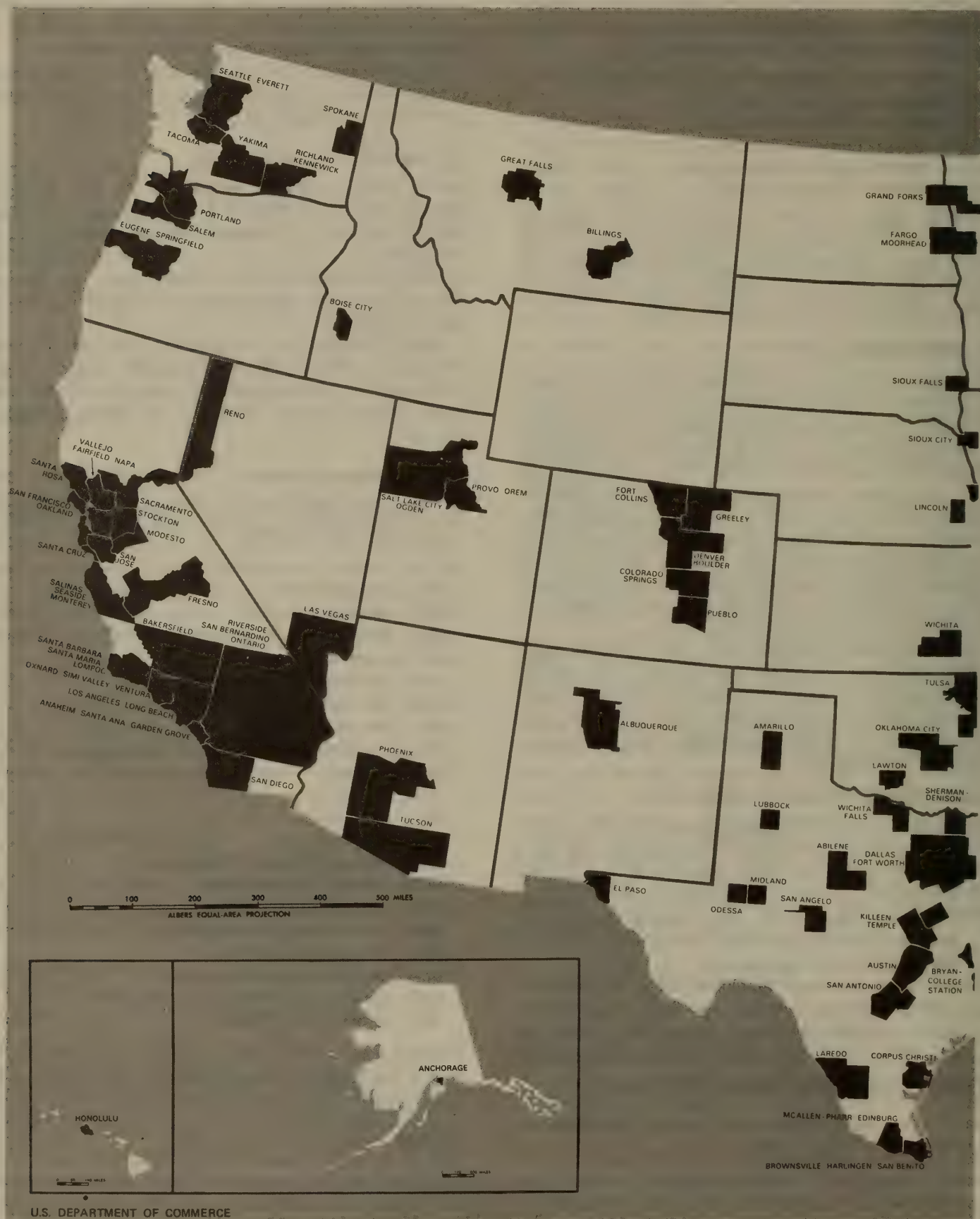
24. ABBREVIATIONS

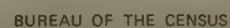
The following abbreviations and symbols occur frequently in text, tables, and footnotes:

—	Zero
(X)	Not applicable
(NA)	Not available
(D)	Withheld to avoid disclosing operations of individual companies
n.e.c.	Not elsewhere classified
n.s.k.	Not specified by kind
(S)	Suppressed
(Z)	Less than one half of unit of measure shown
lin.	Linear
equiv.	Equivalent
hp	Horsepower
kWh	Kilowatt-hours
SIC	Standard Industrial Classification
IRS	Internal Revenue Service
SSA	Social Security Administration
ASM	Annual Survey of Manufactures
CIR	Current Industrial Reports
BEA	Bureau of Economic Analysis
SEC	Securities and Exchange Commission
GNP	Gross National Product

Other abbreviations, such as lb, gal, yd, doz, and bbl, are used in the customary sense. Where the term "tons" only is used, it refers to short tons of 2,000 pounds; where the figures are expressed in tons of 2,240 pounds, the unit of measure is specified as "long tons" or "gross tons."

STANDARD METROPOLITAN STATISTICAL





General Summary

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Table 1. Statistics for All Manufacturing Establishments Including Administrative Offices and Auxiliaries: 1977 and Earlier Years

Year	All establishments		All employees ¹		Production workers			Value added by manufacture ³ (million dollars)	Value of industry shipments (million dollars)	New capital expenditures ⁴ (million dollars)	Index of industrial production ⁵ (1977=100)
	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number ² (1,000)	Hours (million)	Wages (million dollars)				
1977.....	359,928	118,699	19,590.1	264,013.1	13,691.0	26,686.7	157,163.7	585,165.6	1,358,526.4	47,459.0	100.0
1976 ⁶	(NA)	(NA)	18,753.0	233,388.7	13,052.0	25,354.2	137,565.4	511,471.1	1,185,695.3	40,669.9	94.5
1975 ⁶	(NA)	(NA)	18,302.2	209,519.0	12,568.9	24,069.6	121,429.0	442,485.2	1,039,377.4	37,262.1	84.8
1974 ⁶	(NA)	(NA)	19,844.4	208,312.0	13,927.1	27,251.0	124,977.1	452,497.0	1,017,873.4	35,546.1	94.4
1973 ⁶	(NA)	(NA)	19,844.8	193,324.5	14,232.8	28,096.9	118,332.6	405,583.6	875,443.2	26,972.9	94.7
1972.....	320,710	114,195	19,028.7	174,205.5	13,527.9	26,699.2	105,501.8	353,994.0	756,534.3	24,077.7	86.7
1971 ⁶	(NA)	(NA)	18,363.1	156,202.8	12,874.9	25,265.9	93,231.7	314,138.4	670,970.5	20,940.7	78.9
1970 ⁶	(NA)	(NA)	19,217.2	153,078.5	13,528.0	26,669.3	91,609.0	300,227.6	634,322.1	22,164.2	77.6
1969 ⁶	(NA)	(NA)	20,035.5	152,765.6	14,357.8	28,599.8	93,459.6	304,440.7	642,635.8	22,291.2	81.0
1968 ⁶	(NA)	(NA)	19,527.6	141,822.7	14,041.2	28,156.8	87,480.4	285,058.9	603,220.1	20,613.1	77.6
1967.....	311,140	110,256	19,323.2	132,208.4	13,955.3	27,837.6	81,393.6	261,983.8	557,397.8	21,503.0	72.9
1966 ⁶	(NA)	(NA)	19,024.5	125,350.0	13,826.5	28,102.5	78,256.4	250,880.1	538,736.9	20,235.8	72.1
1965 ⁶	(NA)	(NA)	18,010.2	113,972.2	13,076.0	26,567.8	71,361.5	226,939.9	492,005.7	16,615.0	64.9
1964 ⁶	(NA)	(NA)	17,268.5	106,403.3	12,403.3	25,245.5	65,838.9	206,193.6	447,985.1	13,294.3	59.1
1963.....	311,931	102,296	16,958.4	99,898.8	12,232.0	24,509.4	62,093.6	192,082.9	420,528.1	11,370.0	55.3
1962 ⁶	(NA)	(NA)	16,765.6	94,291.2	12,126.5	24,269.5	59,134.1	179,071.1	399,308.9	10,436.2	52.2
1961 ⁶	(NA)	(NA)	16,331.2	88,127.8	11,778.5	23,289.4	54,764.6	164,281.1	369,994.3	9,779.8	47.8
1960 ⁶	(NA)	(NA)	16,762.7	88,087.1	12,209.5	24,174.4	55,555.5	163,998.5	(NA)	10,097.8	47.7
1959 ⁶	(NA)	(NA)	16,662.2	85,642.0	12,272.6	24,443.6	54,714.1	161,535.8	(NA)	9,140.0	46.8
1958 ⁷	303,303	95,310	16,025.2	78,348.9	11,681.1	22,679.2	49,605.2	141,540.6	326,722.8	9,543.5	41.6
1957 ⁶	(NA)	(NA)	17,104.7	79,354.0	12,828.9	25,208.0	52,569.0	147,838.4	(NA)	12,144.0	44.6
1956 ⁶	(NA)	(NA)	17,178.3	77,059.0	13,131.3	26,088.5	52,040.8	144,909.3	(NA)	11,233.2	44.1
1955 ⁶	(NA)	(NA)	16,818.5	72,126.0	12,954.4	25,898.3	49,217.9	135,022.5	(NA)	8,233.1	42.5
1954 ⁷	(NA)	(NA)	16,125.6	65,977.0	12,372.0	24,334.1	44,590.5	117,032.3	(NA)	8,200.7	37.6
1953 ⁶	(NA)	(NA)	17,093.0	68,590.4	13,500.9	27,065.6	48,979.1	121,659.1	(NA)	8,047.9	40.3
1952 ⁶	(NA)	(NA)	16,061.0	61,140.6	12,706.0	25,617.6	43,763.6	109,162.1	(NA)	7,883.4	36.9
1951 ⁶	(NA)	(NA)	15,638.0	56,283.8	12,508.9	25,263.8	40,654.8	102,085.8	(NA)	7,781.7	35.4
1950 ⁶	(NA)	(NA)	14,769.9	47,892.9	11,778.8	23,716.5	34,600.0	89,749.8	(NA)	5,041.3	32.8
1949 ⁶	(NA)	(NA)	13,880.1	42,752.0	11,016.3	21,769.7	30,254.0	75,366.5	(NA)	5,066.9	28.2
1947.....	240,807	(NA)	14,294.0	39,695.6	11,917.9	24,316.5	30,244.0	74,290.5	(NA)	5,998.1	28.7
1939 ⁸	173,802	(NA)	9,527.3	12,706.1	7,808.2	(NA)	8,997.5	24,487.3	(NA)	(NA)	15.7
1937.....	166,794	(NA)	9,786.4	12,829.7	8,569.2	(NA)	10,112.9	25,173.5	(NA)	(NA)	(NA)
1935 ⁷	167,916	(NA)	8,262.3	9,564.8	7,203.8	(NA)	7,311.3	18,552.6	(NA)	(NA)	(NA)
1933.....	139,325	(NA)	6,557.9	10,623.8	5,787.6	(NA)	4,940.1	14,007.5	(NA)	(NA)	10.2
1931.....	171,450	(NA)	(NA)	(NA)	6,163.1	(NA)	6,688.5	18,600.5	(NA)	(NA)	(NA)
1929.....	206,663	(NA)	9,659.7	14,284.3	8,369.7	(NA)	10,884.9	30,591.4	(NA)	(NA)	(NA)
1927.....	187,629	(NA)	9,072.1	13,123.1	7,848.1	(NA)	10,099.5	26,325.4	(NA)	(NA)	16.6
1925.....	183,877	(NA)	9,142.4	12,957.7	7,871.4	(NA)	9,979.6	25,667.6	(NA)	(NA)	(NA)
1923.....	192,096	(NA)	9,474.7	12,996.5	8,194.2	(NA)	10,148.6	24,569.5	(NA)	(NA)	(NA)
1921.....	192,059	(NA)	7,557.4	9,870.2	6,475.5	(NA)	7,451.3	17,252.8	(NA)	(NA)	(NA)
1919.....	270,231	(NA)	9,836.8	12,426.9	8,464.9	(NA)	9,664.0	23,841.6	(NA)	(NA)	(NA)
1914.....	268,436	(NA)	7,514.2	5,016.0	6,602.3	(NA)	3,782.3	9,385.6	(NA)	(NA)	(NA)
1909.....	264,810	(NA)	4,105.5	4,105.5	6,261.7	(NA)	3,205.2	8,160.1	(NA)	(NA)	(NA)
1904.....	213,444	(NA)	5,674.9	2,990.9	5,181.7	(NA)	2,440.9	6,019.2	(NA)	(NA)	(NA)
1899.....	204,754	(NA)	4,850.0	2,258.7	4,501.9	(NA)	1,892.6	4,647.0	(NA)	(NA)	(NA)
1899 ¹¹	509,490	(NA)	5,478.3	2,595.6	5,097.6	(NA)	2,206.5	5,474.9	(NA)	(NA)	(NA)
1889.....	353,864	(NA)	4,586.5	2,209.1	4,129.4	(NA)	1,820.9	4,120.3	(NA)	(NA)	(NA)
1879.....	253,852	(NA)	(NA)	(NA)	2,732.6	(NA)	948.0	1,972.8	(NA)	(NA)	(NA)
1869.....	252,148	(NA)	(NA)	(NA)	2,054.0	(NA)	620.5	1,395.1	(NA)	(NA)	(NA)
1859.....	140,433	(NA)	(NA)	(NA)	1,311.2	(NA)	378.9	854.3	(NA)	(NA)	(NA)
1849.....	123,025	(NA)	(NA)	(NA)	957.1	(NA)	236.8	464.0	(NA)	(NA)	(NA)

(NA) Not available.

¹The figures for 1939 to 1977 include data for employees at manufacturing establishments who were engaged in distribution and in construction work. The extent to which data for such employees were included in the figures for earlier years is not known. In addition to the employment and payroll for operating manufacturing establishments, manufacturing companies reported separately for administrative offices or auxiliary units (e.g., research laboratories, storage warehouses, power plants, garages, repair shops, etc.) that service the manufacturing establishment(s) of a company. These data are included in the total employment, payroll, and establishment figures for the years 1949 to 1977.

²The method of compiling these figures varied, as follows: All employees: For 1955 to 1977, figures represent the average of the number of production workers for the payroll period ended nearest the 12th of March, May, August, and November, plus all other employees for the payroll period ended nearest the 12th of March; for 1949 to 1954, they represent an average of all employees for the payroll period ended nearest the 12th of March, May, August, and November; for 1947, an average of 12 monthly figures for all employees; and for 1939 and prior years, the average number of production workers based on 12 monthly figures, plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1949 to 1977, figures are based on employment for the payroll period ended nearest the 12th of March, May, August, and November; and for 1947 and prior years, they represent the average of 12 monthly figures.

³For the period 1954 to 1977, value added by manufacture represents adjusted value added, and for earlier years, unadjusted value added. Unadjusted value added is obtained by subtracting the cost of materials, supplies and containers, fuel, purchased electric energy, and contract work from the value of shipments for products manufactured plus receipts for services rendered. Adjusted value added also takes into account (a) value added by merchandising operations (that is, the difference between the sales value and cost of merchandise sold without further manufacture, processing, or assembly), plus (b) the net change in finished goods for work-in-process inventories between the beginning and end of the year. For 1849 to 1933, cost of contract work was not subtracted from value of shipments in calculating value added by manufacture.

⁴The figures for 1951 to 1977 include expenditures for plants under construction and not yet in operation. This information was not collected prior to 1951.

Footnotes are continued on next page.

Table 1. Statistics for All Manufacturing Establishments Including Administrative Offices and Auxiliaries: 1977 and Earlier Years—Con.

⁵Source: Board of Governors, Federal Reserve System.

⁶These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

⁷The 1958 and subsequent years figures include establishments classified in Industry 3273, Ready-Mixed Concrete, and establishments classified in Industry 3599, Machinery, Except Electrical, N.E.C., that were engaged exclusively or almost exclusively in machine shop repair work. The data for such establishments are excluded from the figures for the period 1939 to 1957, but are included for 1929 and earlier years. The 1954 to 1966 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry 202, Dairy Products. These establishments were not included in the figures for earlier census years. In addition, beginning with 1954, the figures include data for Industry 2411, Logging Camps and Logging Contractors, which were not included within the scope of the 1947 census. There were also a number of changes in the definition of manufacturing industries during earlier census years that affect the comparability of the historical series. Among the more important of these were the following: Figures for 1935 and later years exclude data for railroad repair shops and manufactured gas, which were included in 1899 to 1933 figures; the minimum size of establishment included for 1947 to 1966 was one employee; for 1921 to 1939, manufacturing establishments reporting value of shipments of \$5,000 or more were within scope; whereas, for 1919 and earlier years, the cutoff was \$500. (These changes in procedure have not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

⁸The figures for 1939, but not for earlier years, have been revised on the basis of retabulation of the returns to exclude data for establishments classified as manufacturing in 1939 and prior years but classified as nonmanufacturing beginning with 1947. Value added by manufacture for 1939, prior to revision and on a basis comparable with 1937 and previous year, was \$24.7 billion.

⁹The 1939 figures for all employees were revised on the basis of estimates rather than by retabulation of the 1939 reports. The estimates were made in the following manner: For the number of employees, by multiplying the retabulated figure for number of production workers by the ratio of all employees to production workers computed from the unrevised 1939 statistics; for salaries and wages, by multiplying the retabulated wage figure by the ratio for salaries and wages also derived from the unrevised 1939 statistics.

¹⁰Not including data for salaried officers of corporations and their salaries and, therefore, not strictly comparable with figures for other years.

¹¹These figures for 1899 and earlier years represent hand and neighborhood manufacturing operations.

Table 2. Operating Ratios for All Manufacturing Establishments Including Administrative Offices and Auxiliaries: 1977 and Earlier Years

Year	Payroll per employee (dollars)	Assets per employee (dollars)	Production workers as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Assets as percent of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
1977.....	13,477	22,406	70	1,949	5.89	58	77	32	29,871	45	21.93
1976.....	12,445	21,423	70	1,943	5.43	57	77	34	27,274	46	20.17
1975.....	11,448	20,075	69	1,915	5.04	57	78	35	24,177	47	18.38
1974.....	10,497	17,131	70	1,957	4.59	57	78	33	22,802	46	16.60
1973.....	9,716	15,889	72	1,974	4.21	55	77	36	20,383	48	14.44
1972.....	9,155	15,799	71	1,974	3.95	54	77	40	18,603	49	13.26
1971.....	8,506	15,107	70	1,962	3.69	53	76	41	17,107	50	12.43
1970.....	7,966	13,910	70	1,971	3.43	53	78	42	15,623	51	11.26
1969.....	7,625	12,440	72	1,992	3.27	53	77	39	15,195	50	10.64
1968.....	7,263	11,869	72	2,005	3.11	53	77	38	14,598	50	10.12
1967.....	6,842	11,286	72	1,995	2.92	54	77	39	13,558	50	9.41
1966.....	6,589	(NA)	73	2,033	2.78	55	78	(NA)	13,188	50	8.93
1965.....	6,328	(NA)	73	2,032	2.69	55	78	(NA)	12,601	50	8.54
1964.....	6,162	9,726	72	2,035	2.61	54	78	37	11,940	52	8.17
1963.....	5,890	9,294	72	2,004	2.53	55	78	37	11,325	52	7.84
1962.....	5,624	8,890	72	2,001	2.44	55	79	37	10,681	53	7.38
1961.....	5,396	(NA)	72	1,977	2.35	56	80	(NA)	10,059	54	7.05
1960.....	5,255	(NA)	73	1,980	2.30	(NA)	(NA)	(NA)	9,784	54	6.78
1959.....	5,140	(NA)	74	1,992	2.24	(NA)	(NA)	(NA)	9,695	53	6.61
1958.....	4,889	(NA)	73	1,942	2.19	(NA)	(NA)	(NA)	8,832	55	6.24
1957.....	4,639	6,460	75	1,963	2.09	(NA)	(NA)	(NA)	8,643	54	5.86
1956.....	4,486	(NA)	76	1,987	1.99	(NA)	(NA)	(NA)	8,436	53	5.55
1955.....	4,288	(NA)	77	1,999	1.90	(NA)	(NA)	(NA)	8,028	53	5.21
1954.....	4,091	(NA)	77	1,967	1.83	(NA)	(NA)	(NA)	7,258	56	4.81
1953.....	4,013	(NA)	79	2,005	1.81	(NA)	(NA)	(NA)	7,117	56	4.49
1952.....	3,807	(NA)	79	2,016	1.71	(NA)	(NA)	(NA)	6,797	56	4.26
1951.....	3,586	(NA)	80	2,020	1.61	(NA)	(NA)	(NA)	6,539	55	4.04
1950.....	3,243	(NA)	80	2,013	1.46	(NA)	(NA)	(NA)	6,077	53	3.78
1949.....	3,080	(NA)	79	1,976	1.39	(NA)	(NA)	(NA)	5,430	57	3.46
1947.....	2,777	(NA)	83	2,040	1.24	(NA)	(NA)	(NA)	5,197	53	3.06
1939.....	1,334	(NA)	82	(NA)	(NA)	(NA)	(NA)	(NA)	2,570	52	(NA)
1937.....	1,311	(NA)	88	(NA)	(NA)	(NA)	(NA)	(NA)	2,572	51	(NA)
1935.....	1,158	(NA)	87	(NA)	(NA)	(NA)	(NA)	(NA)	2,245	52	(NA)
1933.....	951	(NA)	88	(NA)	(NA)	(NA)	(NA)	(NA)	2,136	45	(NA)
1931.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1929.....	1,479	(NA)	87	(NA)	(NA)	(NA)	(NA)	(NA)	3,167	47	(NA)
1927.....	1,447	(NA)	87	(NA)	(NA)	(NA)	(NA)	(NA)	2,902	50	(NA)
1925.....	1,417	(NA)	86	(NA)	(NA)	(NA)	(NA)	(NA)	2,808	50	(NA)
1923.....	1,372	(NA)	86	(NA)	(NA)	(NA)	(NA)	(NA)	2,593	53	(NA)
1921.....	1,306	(NA)	86	(NA)	(NA)	(NA)	(NA)	(NA)	2,283	57	(NA)
1919.....	1,263	(NA)	86	(NA)	(NA)	(NA)	(NA)	(NA)	2,424	52	(NA)
1914.....	668	(NA)	88	(NA)	(NA)	(NA)	(NA)	(NA)	1,249	53	(NA)
1909.....	585	(NA)	89	(NA)	(NA)	(NA)	(NA)	(NA)	1,162	50	(NA)
1904.....	527	(NA)	91	(NA)	(NA)	(NA)	(NA)	(NA)	1,061	50	(NA)
1899.....	466	(NA)	93	(NA)	(NA)	(NA)	(NA)	(NA)	958	49	(NA)
1899.....	474	(NA)	93	(NA)	(NA)	(NA)	(NA)	(NA)	999	47	(NA)
1889.....	482	(NA)	90	(NA)	(NA)	(NA)	(NA)	(NA)	894	54	(NA)
1879.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1869.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1859.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1849.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: For qualifications to data, see footnotes on table 1.

(NA) Not available.

Table 3. Selected Statistics for Administrative Offices and Auxiliaries by Major Industry Group of Establishments Served: 1977

1977 code	Major industry group and central administrative offices and auxiliaries	Estab- lish- ments ¹ (number)	Empley- ees (1,000)	Total payroll ² (million dollars)	1977 code	Major industry group and central administrative offices and auxiliaries	Estab- lish- ments ¹ (number)	Empley- ees (1,000)	Total payroll ² (million dollars)
	Manufacturing, total ¹	9,171	1,074.2	21,981.2	30	Rubber and miscellaneous plastics products.....	215	25.2	458.3
	Central administrative offices..	7,309	694.4	14,776.4		Central administrative offices.....	180	19.1	343.2
	Research, development, and testing.....	1,838	202.3	4,380.9		Research, development, and testing..	52	2.8	72.2
	Warehousing.....	1,647	36.6	438.7		Warehousing.....	54	.9	10.5
	Electronic data processing.....	1,739	51.2	908.8		Electronic data processing.....	44	1.0	12.2
	Other activities.....	3,029	89.6	1,476.4		Other activities.....	69	1.4	20.2
20	Food and kindred products.....	1,341	102.1	1,929.1	31	Leather and leather products.....	103	10.8	132.3
	Central administrative offices.....	1,061	76.8	1,532.2		Central administrative offices.....	87	6.9	89.5
	Research, development, and testing..	215	8.0	134.2		Research, development, and testing..	7	(Z)	.5
	Warehousing.....	270	3.9	48.6		Warehousing.....	40	3.1	28.9
	Electronic data processing.....	261	5.7	115.3		Electronic data processing.....	26	.4	5.4
	Other activities.....	422	7.7	98.8		Other activities.....	57	.4	8.0
21	Tobacco manufactures.....	48	8.0	146.9	32	Stone, clay, and glass products.....	600	41.1	797.2
	Central administrative offices.....	36	5.5	107.4		Central administrative offices.....	511	29.9	581.0
	Research, development, and testing..	9	.4	5.4		Research, development, and testing..	107	5.0	89.0
	Warehousing.....	14	.3	1.8		Warehousing.....	75	.4	4.7
	Electronic data processing.....	11	.5	6.0		Electronic data processing.....	132	2.0	24.3
	Other activities.....	9	1.3	26.3		Other activities.....	333	3.8	98.2
22	Textile mill products.....	375	33.2	553.0	33	Primary metal industries.....	484	46.8	1,031.0
	Central administrative offices.....	309	22.2	389.2		Central administrative offices.....	346	35.1	806.9
	Research, development, and testing..	68	2.5	39.6		Research, development, and testing..	95	7.3	140.0
	Warehousing.....	82	2.3	24.5		Warehousing.....	60	.5	5.0
	Electronic data processing.....	75	1.8	25.6		Electronic data processing.....	82	2.0	50.4
	Other activities.....	121	4.4	74.1		Other activities.....	172	1.9	28.7
23	Apparel and other textile products....	424	27.5	403.6	34	Fabricated metal products.....	549	50.1	986.5
	Central administrative offices.....	353	18.6	296.9		Central administrative offices.....	477	36.7	744.3
	Research, development, and testing..	38	.8	13.1		Research, development, and testing..	110	6.7	120.6
	Warehousing.....	113	4.3	39.3		Warehousing.....	73	.9	10.9
	Electronic data processing.....	76	1.4	14.8		Electronic data processing.....	113	2.3	42.4
	Other activities.....	119	2.4	39.5		Other activities.....	168	3.6	68.3
24	Lumber and wood products.....	320	14.5	270.2	35	Machinery, except electrical.....	754	93.1	1,884.8
	Central administrative offices.....	265	10.6	204.6		Central administrative offices.....	592	61.4	1,330.0
	Research, development, and testing..	34	1.0	20.0		Research, development, and testing..	178	15.2	248.5
	Warehousing.....	56	.3	3.3		Warehousing.....	146	3.7	57.4
	Electronic data processing.....	57	.8	12.7		Electronic data processing.....	140	4.9	93.3
	Other activities.....	115	1.7	29.6		Other activities.....	300	7.9	155.6
25	Furniture and fixtures.....	124	9.0	140.1	36	Electric and electronic equipment....	694	140.0	2,840.9
	Central administrative offices.....	110	6.8	107.1		Central administrative offices.....	553	69.8	1,535.1
	Research, development, and testing..	16	.4	7.1		Research, development, and testing..	185	37.1	775.8
	Warehousing.....	31	.7	7.1		Warehousing.....	153	4.9	68.5
	Electronic data processing.....	31	.5	5.9		Electronic data processing.....	153	8.0	158.2
	Other activities.....	32	.5	12.9		Other activities.....	168	20.2	303.3
26	Paper and allied products.....	251	37.6	902.4	37	Transportation equipment.....	403	105.5	2,640.9
	Central administrative offices.....	219	31.7	802.0		Central administrative offices.....	307	50.5	1,312.5
	Research, development, and testing..	65	3.0	57.9		Research, development, and testing..	108	42.8	1,159.1
	Warehousing.....	15	.1	1.3		Warehousing.....	51	2.2	38.1
	Electronic data processing.....	61	1.6	20.6		Electronic data processing.....	80	3.0	65.7
	Other activities.....	59	1.2	20.6		Other activities.....	88	7.0	65.5
27	Printing and publishing.....	644	38.9	621.4	38	Instruments and related products.....	228	32.8	691.6
	Central administrative offices.....	490	23.5	405.9		Central administrative offices.....	195	19.7	420.7
	Research, development, and testing..	26	1.0	18.2		Research, development, and testing..	78	9.2	208.0
	Warehousing.....	66	4.1	38.5		Warehousing.....	38	.6	7.8
	Electronic data processing.....	57	1.8	23.5		Electronic data processing.....	44	1.7	33.7
	Other activities.....	343	8.5	135.3		Other activities.....	43	1.5	21.4
28	Chemicals and allied products.....	1,170	181.4	3,798.9	39	Miscellaneous manufacturing industries.....	157	11.2	190.1
	Central administrative offices.....	857	114.1	2,470.3		Central administrative offices.....	128	8.4	147.3
	Research, development, and testing..	360	46.3	953.3		Research, development, and testing..	30	.7	16.5
	Warehousing.....	242	2.5	30.6		Warehousing.....	38	.6	7.4
	Electronic data processing.....	212	7.1	120.6		Electronic data processing.....	37	.7	9.5
	Other activities.....	279	11.4	224.1		Other activities.....	50	.8	9.4
29	Petroleum and coal products.....	287	65.3	1,562.0					
	Central administrative offices.....	233	47.0	1,150.3					
	Research, development, and testing..	57	12.1	301.9					
	Warehousing.....	30	.3	4.5					
	Electronic data processing.....	47	4.1	68.7					
	Other activities.....	82	1.8	36.6					

(Z) Less than 50 employees.

¹Detailed establishment data exceed totals since some establishments participate in more than one activity.

²Total payroll data for each industry group are actual. Detail data are estimates based on reported employment and average annual salaries determined from data collected in the 1977 Enterprise Statistics series.

Table 4. Selected Statistics by Major Industry Group and Industry: 1977 and 1972

Code	Industry group and industry	1977										Value added by manu- facture (million dollars)	Value of ship- ments ¹ (million dollars)
		Companies (number)	All establishments		All employees		Production workers						
			Total (number)	With 20 employees or more (number)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (million)	Wages (million dollars)				
	ALL INDUSTRIES, TOTAL.	300 393	359 928	118 699	19 590.1	264 013.1	13 691.0	26 686.7	157 163.7	585 165.6	1 358 526.4		
20	FOOD AND KINDRED PRODUCTS.	20 616	26 656	11 038	1 520.0	18 543.6	1 072.0	2 112.4	11 730.7	56 062.2	192 911.6		
201	MEAT PRODUCTS.	3 967	4 534	1 715	309.1	3 701.5	254.0	499.8	2 817.0	7 478.0	46 276.3		
2011	MEATPACKING PLANTS	2 403	2 590	737	146.2	2 110.6	116.5	237.2	1 625.9	4 010.1	31 208.2		
2013	SAUSAGES AND OTHER PREPARED MEATS.	1 213	1 345	570	65.0	891.9	50.1	100.4	626.6	2 039.0	8 465.4		
2016	POULTRY DRESSING PLANTS.	313	446	313	86.8	612.3	77.7	143.6	496.3	1 236.9	5 746.1		
2017	POULTRY AND EGG PROCESSING	124	153	95	11.1	86.8	9.8	18.6	68.1	192.0	856.6		
202	DAIRY PRODUCTS.	2 837	3 731	1 617	153.9	1 938.9	85.0	175.6	987.6	5 648.3	26 009.8		
2021	CREAMERY BUTTER.	123	138	39	2.3	26.3	1.7	3.6	18.1	74.6	900.5		
2022	CHEESE, NATURAL AND PROCESSED.	660	791	293	26.7	287.0	22.2	44.0	223.4	948.8	6 126.0		
2023	CONDENSED AND EVAPORATED MILK.	167	266	148	12.3	163.2	9.0	18.9	110.7	805.2	3 188.5		
2024	ICE CREAM AND FROZEN DESSERTS.	507	612	229	19.1	247.0	11.4	22.7	130.1	643.7	2 008.6		
2026	FLUID MILK	1 516	1 924	908	93.5	1 215.4	40.8	86.3	505.4	3 175.9	13 786.2		
203	PRESERVED FRUITS AND VEGETABLES.	1 752	2 379	1 263	234.7	2 336.0	198.7	377.2	1 792.8	7 684.5	20 332.8		
2032	CANNED SPECIALTIES	172	203	88	26.4	296.5	21.5	42.4	224.3	2 142.6	2 829.2		
2033	CANNED FRUITS AND VEGETABLES	648	900	519	82.6	789.8	72.6	135.0	636.6	2 542.4	6 662.8		
2034	DEHYD. FRUITS, VEGETABLES, SOUPS	143	184	87	14.4	153.9	11.7	22.1	111.5	472.6	1 142.4		
2035	PICKLES, SAUCES, SALAD DRESSINGS	380	438	168	23.5	250.2	18.9	35.7	184.9	2 986.5	2 996.5		
2037	FROZEN FRUITS AND VEGETABLES	187	260	193	46.8	425.9	41.5	78.5	344.7	2 322.5	2 297.5		
2038	FROZEN SPECIALTIES	330	394	208	41.0	419.8	32.5	63.4	290.9	2 117.7	2 404.4		
204	GRAIN MILL PRODUCTS.	2 094	3 043	1 076	112.8	1 575.6	79.3	165.5	1 034.2	6 625.6	22 344.2		
2041	FLOUR, OTHER GRAIN MILL PRODUCTS	301	407	173	15.6	222.3	11.3	24.6	153.4	824.5	3 683.3		
2043	CEREAL BREAKFAST FOODS	32	48	35	16.4	287.4	13.8	28.8	230.0	1 447.0	2 497.5		
2044	RICE MILLING	47	59	39	4.8	61.4	4.0	8.4	40.7	341.0	1 263.4		
2045	BLENDED AND PREPARED FLOUR	111	137	60	8.4	104.5	5.8	12.1	68.0	408.7	1 011.7		
2046	WET CORN MILLING	24	39	27	10.9	191.1	7.8	15.7	132.2	666.7	2 014.8		
2047	DOG, CAT, AND OTHER PET FOOD	218	290	132	17.7	245.5	13.4	27.7	170.3	1 392.9	3 086.7		
2048	PREPARED FEEDS, NEC.	1 435	2 063	610	39.1	463.4	23.2	48.2	239.6	1 544.7	8 786.8		
205	BAKERY PRODUCTS.	2 797	3 386	1 289	221.7	2 866.1	131.4	258.7	1 525.0	7 073.2	12 235.3		
2051	BREAD, CAKE, AND RELATED PRODUCTS.	2 549	3 062	1 117	178.0	2 335.8	97.4	191.7	1 152.8	5 377.2	9 274.9		
2052	COOKIES AND CRACKERS	263	324	172	43.8	530.2	34.0	67.0	372.2	1 695.9	2 960.5		
206	SUGAR, CONFECTIONERY PRODUCTS.	990	1 198	518	105.4	1 206.2	83.7	164.8	868.3	4 150.9	10 839.8		
2061	RAW CANE SUGAR	49	65	55	8.0	95.8	6.3	13.6	70.8	275.7	704.0		
2062	CANE SUGAR REFINING.	27	40	27	10.2	168.9	7.2	15.4	116.4	526.2	2 260.0		
2063	BET SUGAR	14	57	52	11.4	143.3	9.9	21.3	119.0	344.9	1 181.7		
2065	CONFECTIONERY PRODUCTS	867	962	343	58.0	584.2	47.0	89.1	415.5	2 028.0	4 498.4		
2066	CHOCOLATE AND COCOA PRODUCTS	47	56	27	10.0	130.2	7.2	13.9	84.0	640.6	1 629.2		
2067	CHEWING GUM.	14	18	14	7.7	83.9	6.0	11.6	62.7	335.5	566.5		
207	FATS AND OILS.	591	869	458	41.1	561.4	29.6	64.3	365.4	1 905.2	14 480.0		
2074	COTTONSEED OIL MILLS	62	97	71	5.2	51.5	4.1	9.3	35.9	197.4	859.2		
2075	SOYBEAN OIL MILLS.	65	121	87	9.4	130.7	6.6	14.7	87.8	373.8	7 580.0		
2076	VEGETABLE OIL MILLS, NEC	37	42	19	1.5	17.6	1.1	2.5	12.2	58.4	360.8		
2077	ANIMAL AND MARINE FATS AND OILS.	384	500	201	12.4	171.2	8.7	19.2	103.8	583.8	1 655.0		
2079	SHORTENING AND COOKING OILS.	66	109	80	12.7	190.5	9.0	18.7	125.8	691.8	4 025.0		
208	BEVERAGES.	2 440	3 104	1 689	195.1	2 848.9	99.5	200.1	1 368.7	9 900.9	23 329.0		
2082	MALT BEVERAGES	81	131	91	44.0	857.5	31.1	61.1	589.1	2 602.3	6 652.6		
2083	MALT	27	40	27	1.6	27.4	1.2	2.5	20.0	101.4	499.3		
2084	WINES, BRANDY, AND BRANDY SPIRITS.	233	269	76	9.2	134.1	5.4	10.5	69.6	510.4	1 362.5		
2085	DISTILLED LIQUOR, EXCEPT BRANDY.	64	104	77	15.7	232.1	12.0	23.8	168.1	2 149.7	2 296.1		
2086	BOTTLED AND CANNED SOFT DRINKS	1 758	2 192	1 286	114.1	1 448.8	43.4	89.3	444.8	4 084.5	10 007.2		
2087	FLAVORING EXTRACTS, SIRUPS, NEC.	319	368	132	10.5	149.1	6.3	12.9	77.1	1 452.6	2 511.3		
209	MISC. FOODS, KINDRED PRODUCTS.	3 794	4 412	1 413	146.2	1 508.8	110.8	206.4	971.6	5 595.7	17 064.3		
2091	CANNED AND CURED SEAFOODS.	215	255	118	16.0	147.0	13.8	25.0	113.4	441.0	1 440.6		
2092	FRESH OR FROZEN PACKAGED FISH.	906	990	406	34.3	260.8	29.6	49.7	188.9	705.5	2 664.9		
2095	ROASTED COFFEE	133	167	89	10.9	164.8	7.2	15.0	103.2	988.0	5 616.4		
2097	MANUFACTURED ICE	543	678	63	5.3	47.8	3.5	6.7	25.5	106.1	149.4		
2098	MACARONI AND SPAGHETTI	189	205	68	8.2	96.0	5.7	12.3	56.5	327.0	662.0		
2099	FOOD PREPARATIONS, NEC	1 872	2 117	669	71.5	792.6	50.9	97.7	484.1	3 028.1	6 531.0		
21	TOBACCO PRODUCTS	155	228	123	60.6	750.7	50.4	92.6	570.7	4 334.1	9 050.6		
2111	CIGARETTES	8	14	13	39.0	567.7	32.5	58.9	442.0	3 803.1	6 377.4		
2121	CIGARS	94	101	34	7.7	54.9	7.0	12.7	44.0	125.6	242.7		
2131	CHEWING AND SMOKING TOBACCO.	28	35	19	3.2	32.1	2.5	4.4	22.0	188.9	354.3		
2141	TOBACCO STEMMING AND REDRYING.	38	78	57	10.7	96.1	8.4	16.6	62.6	216.5	2 076.2		
22	TEXTILE MILL PRODUCTS.	5 733	7 202	4 131	875.7	7 881.4	764.6	1 523.1	6 202.8	16 104.5	40 550.5		
2211	WEAVING MILLS, COTTON.	211	314	192	117.2	1 046.8	107.2	214.3	902.0	1 944.5	4 431.2		
2221	WEAVING MILLS, MANMADE FIBER, SILK.	267	449	351	151.0	1 428.7	134.6	275.4	1 168.7	2 790.9	6 325.9		
2231	WEAVING AND FINISHING MILLS, WOOL.	153	165	84	14.6	136.6	12.6	25.9	105.8	312.9	583.3		
2241	NARROW FABRIC MILLS.	291	335	182	20.8	171.6	18.1	35.7	130.9	350.8	682.9		
225	KNITTING MILLS	2 318	2 617	1 511	235.9	1 911.0	205.9	389.4	1 469.9	3 863.0	9 470.0		
2251	WOMEN'S HOSIERY, EXCEPT SOCKS.	176	200	119	26.6	191.3	23.8	44.1	156.6	457.0	871.2		
2252	HOSIERY, NEC	382	415	257	32.2	218.7	29.0	52.6	179.4	401.5	921.3		
2253	KNIT OUTERWEAR MILLS	903	953	551	73.0	582.0	62.7	114.0	422.0	1 159.5	2 335.9		
2254	KNIT UNDERWEAR MILLS	80	92	74	25.2	175.2	23.4	42.7	151.8	305.7	648.9		
2257	CIRCULAR KNIT FABRIC MILLS	462	530	310	51.8	493.0	44.0	88.2	371.2	1 033.5	3 169.4		
2258	WARP KNIT FABRIC MILLS	213	235	153	23.7	226.7	20.0	41.9	169.8	464.8	1 427.6		
2259	KNITTING MILLS, NEC.	191	192	47	3.4	24.1	3.1	6.0	19.0	40.9	95.7		
226	TEXTILE FINISHING, EXCEPT WOOL	602	678	395	72.1	740.0	59.8	123.5	554.0	1 416.7	3 994.3		
2261	FINISHING PLANTS, COTTON	194	210	94	20.8	211.4	17.3	35.7	162.2	350.7	759.5		
2262	FINISH. PLTS, MANMADE FIBER, SILK.	248	285	189	37.2	396.2	30.4	63.					

See footnotes at end of table.

Table 4. Selected Statistics by Major Industry Group and Industry: 1977 and 1972—Con.

Code	Industry group and industry	1977--Continued						1972					
		New capital expenditures ⁴		Machinery and equipment (million dollars)	Inventories		Ratios		All employees		Value added by manu- facture (million dollars)	Value of ship- ments ¹ (million dollars)	New capital expend- itures (million dollars)
		Total (million dollars)	Structures and additions to plant (million dollars)		End of year (million dollars)	Beginning of year (million dollars)	Spe- cial- iza- tion (per- cent)	Cov- er- age (per- cent)	Num- ber (1,000)	Payroll (million dollars)			
	ALL INDUSTRIES, TOTAL.	47 459.0	8 499.5	38 959.5	188 436.4	174 865.0	(NA)	(NA)	19 028.7	174 205.5	353 994.0	756 534.3	24 077.7
20	FOOD AND KINDRED PRODUCTS.	4 214.9	908.5	3 306.4	16 984.9	16 416.3	(NA)	(NA)	1 569.3	12 920.2	35 614.8	115 051.5	2 355.0
201	MEAT PRODUCTS.	532.7	144.7	387.9	1 379.7	1 273.1	(NA)	(NA)	307.7	2 543.6	4 960.9	31 477.9	299.6
2011	MEATPACKING PLANTS	236.7	63.6	173.1	700.1	651.2	98	84	157.5	1 532.1	2 968.1	23 003.4	167.7
2013	SAUSAGES AND OTHER PREPARED MEATS.	151.6	40.4	111.2	406.4	375.1	97	60	58.1	542.2	1 099.9	4 632.4	74.0
2016	POULTRY DRESSING PLANTS.	126.1	36.6	89.5	206.8	188.3	99	92	77.6	391.8	724.4	3 254.1	45.5
2017	POULTRY AND EGG PROCESSING	18.3	4.2	14.1	66.3	58.6	99	73	14.6	77.5	168.5	588.1	12.4
202	DAIRY PRODUCTS	389.0	89.3	299.7	1 180.2	1 096.9	(NA)	(NA)	188.7	1 596.4	4 054.1	16 311.5	274.7
2021	CREAMERY BUTTER.	8.3	1.9	6.4	24.2	25.4	80	61	4.0	31.0	82.3	808.3	7.8
2022	CHEESE, NATURAL AND PROCESSED.	57.2	12.9	44.3	550.4	528.3	91	93	25.2	186.3	492.3	3 195.0	49.9
2023	CONDENSED AND EVAPORATED MILK.	56.2	12.1	44.2	175.0	164.4	79	76	12.3	108.3	467.3	1 667.8	32.1
2024	ICE CREAM AND FROZEN DESSERTS.	56.8	20.3	36.4	126.6	116.9	94	75	21.1	184.7	459.8	1 244.7	35.8
2026	FLUID MILK	210.5	42.0	168.5	304.0	261.8	88	94	126.1	1 086.1	2 552.4	9 395.7	149.2
203	PRESERVED FRUITS AND VEGETABLES.	470.5	104.8	365.7	4 537.7	4 193.5	(NA)	(NA)	233.1	1 533.5	4 514.4	11 478.6	358.4
2032	CANNED SPECIALTIES	46.7	11.2	35.5	527.8	508.4	80	89	29.1	217.8	814.6	1 876.6	44.1
2033	CANNED FRUITS AND VEGETABLES	147.1	33.3	113.8	2 233.5	2 062.1	90	89	89.8	559.9	1 625.1	4 043.8	113.1
2034	DEHYD. FRUITS, VEGETABLES, SOUPS	52.5	15.6	36.9	281.9	267.0	94	88	12.4	84.3	235.7	607.3	18.9
2035	PICKLES, SAUCES, SALAD DRESSINGS	52.3	11.7	40.6	447.8	426.7	69	86	20.8	146.2	428.0	1 166.7	43.4
2037	FROZEN FRUITS AND VEGETABLES	87.7	14.1	73.6	724.4	640.3	89	89	42.8	261.2	694.6	1 848.8	57.8
2038	FROZEN SPECIALTIES	84.1	18.9	65.2	322.2	288.9	93	93	38.3	264.1	716.3	1 935.5	81.0
204	GRAIN MILL PRODUCTS.	620.0	126.2	493.8	1 714.5	1 674.5	(NA)	(NA)	111.4	1 012.8	3 698.7	12 162.2	266.6
2041	FLOUR, OTHER GRAIN MILL PRODUCTS	52.4	15.2	37.2	263.2	297.8	98	71	16.1	152.8	509.8	2 380.0	30.0
2043	CEREAL BREAKFAST FOODS	79.8	10.8	69.0	152.1	150.3	74	93	12.9	140.9	688.4	1 125.5	24.9
2044	RICE MILLING	40.0	11.5	28.5	411.4	329.4	100	96	4.0	30.9	148.3	680.6	6.3
2045	BLENDED AND PREPARED FLOUR	17.6	5.8	11.8	80.6	72.3	94	75	7.9	74.9	306.8	704.6	13.7
2046	WET CORN MILLING	232.2	34.2	198.0	158.4	169.8	94	93	12.1	137.7	331.2	832.3	59.7
2047	DOG, CAT, AND OTHER PET FOOD	67.2	13.4	53.7	200.7	193.8	92	88	14.3	135.1	613.8	1 401.9	61.1
2048	PREPARED FEEDS, NEC.	130.9	35.3	95.6	448.2	461.0	96	95	44.0	340.5	1 100.5	5 037.1	70.8
205	BAKERY PRODUCTS.	365.4	78.4	287.1	407.1	382.5	(NA)	(NA)	234.6	2 029.0	4 537.0	7 895.5	207.3
2051	BREAD, CAKE, AND RELATED PRODUCTS.	279.9	52.2	227.6	235.1	220.6	99	98	193.5	1 692.2	3 518.1	6 132.0	170.6
2052	COOKIES AND CRACKERS	85.6	26.1	59.4	172.0	161.9	94	94	41.1	336.9	1 018.9	1 763.5	36.7
206	SUGAR, CONFECTIONERY PRODUCTS.	313.0	60.3	252.6	1 661.8	1 551.8	(NA)	(NA)	107.1	831.5	2 472.9	6 620.1	186.2
2061	RAW CANE SUGAR	43.4	4.0	39.3	107.9	97.3	100	99	7.1	60.7	151.7	406.5	28.8
2062	CANE SUGAR REFINING.	53.4	10.8	42.7	345.1	275.9	99	100	10.9	119.5	383.9	1 742.7	23.6
2063	BEET SUGAR	43.5	4.6	38.9	467.1	469.2	99	99	11.5	92.3	310.5	880.2	34.9
2065	CONFECTIONERY PRODUCTS	115.5	25.9	89.5	450.2	442.6	95	94	60.7	422.2	1 115.7	2 472.5	53.4
2066	CHOCOLATE AND COCOA PRODUCTS	35.0	11.2	23.8	175.1	139.2	94	94	10.0	83.3	282.6	735.5	26.5
2067	CHEWING GUM.	22.1	3.7	18.4	116.4	127.6	92	77	6.9	53.6	228.4	382.6	19.0
207	FATS AND OILS.	208.1	37.3	170.9	1 484.2	1 972.7	(NA)	(NA)	40.3	366.4	1 290.5	6 908.8	121.4
2074	COTTONSEED OIL MILLS	13.0	2.9	10.0	195.4	249.6	88	89	5.5	34.2	88.2	458.7	9.9
2075	SOYBEAN OIL MILLS.	72.3	14.1	58.2	804.9	1 205.9	87	98	9.1	82.4	350.0	3 357.2	41.9
2076	VEGETABLE OIL MILLS, NEC	7.4	2.1	5.3	89.3	83.1	86	58	1.2	11.6	44.8	261.0	3.1
2077	ANIMAL AND MARINE FATS AND OILS.	53.3	8.9	44.3	70.2	54.0	94	68	11.6	106.0	296.7	764.7	31.0
2079	SHORTENING AND COOKING OILS.	62.1	9.2	53.0	324.3	380.1	89	77	12.9	133.7	512.6	2 068.1	35.5
208	BEVERAGES.	993.9	197.0	796.8	2 940.0	2 759.8	(NA)	(NA)	212.3	2 032.7	6 689.0	13 869.4	468.2
2082	MALT BEVERAGES.	410.3	74.8	335.5	444.6	406.5	100	100	51.5	652.8	1 993.6	4 054.4	155.6
2083	MALT	39.6	19.5	20.1	134.2	183.0	100	100	1.7	20.0	55.0	226.3	7.9
2084	WINES, BRANDY, AND BRANDY SPIRITS.	51.1	13.6	37.6	559.5	513.5	88	97	9.4	91.5	407.9	865.0	43.7
2085	DISTILLED LIQUOR, EXCEPT BRANDY.	36.3	9.8	26.5	1 027.9	996.6	98	98	18.4	183.1	1 024.0	1 797.9	32.8
2086	BOTTLED AND CANNED SOFT DRINKS	423.6	72.5	351.0	551.7	467.2	98	97	121.1	984.4	2 336.7	5 453.8	207.1
2087	FLAVORING EXTRACTS, SIRUPS, NEC.	33.1	6.9	26.2	222.1	193.1	92	86	10.1	100.9	871.9	1 472.0	21.1
209	MISC. FOODS, KINDRED PRODUCTS.	322.4	70.5	251.9	1 679.9	1 511.5	(NA)	(NA)	134.2	974.2	3 397.3	8 335.5	172.5
2091	CANNED AND CURED SEAFOODS.	28.1	8.9	19.2	311.1	256.6	81	96	16.0	99.0	231.4	809.8	15.5
2092	FRESH OR FROZEN PACKAGED FISH.	56.8	19.0	37.8	376.7	313.3	97	97	25.0	129.6	287.5	1 084.4	17.8
2095	ROASTED COFFEE	41.9	1.4	40.4	405.3	383.9	96	98	12.9	131.5	825.8	2 328.7	31.5
2097	MANUFACTURED ICE	16.9	5.2	11.6	4.4	3.3	99	99	6.8	42.6	91.7	116.4	8.9
2098	MACARONI AND SPAGHETTI	12.6	3.3	9.2	48.4	45.1	99	83	7.3	59.4	155.7	348.3	7.1
2099	FOOD PREPARATIONS, NEC	166.2	32.6	133.6	534.1	509.4	89	83	66.2	512.1	1 805.2	3 647.9	91.8
21	TOBACCO PRODUCTS	181.5	56.7	124.7	3 711.9	3 615.2	(NA)	(NA)	66.3	502.1	2 637.2	5 920.2	133.2
2111	CIGARETTES	118.0	41.2	76.8	2 652.2	2 564.7	97	99	38.1	344.8	2 188.4	3 744.6	101.5
2121	CIGARS	3.3	.3	3.0	57.8	54.9	(D)	92	13.5	68.2	191.9	338.7	5.4
2131	CHEWING AND SMOKING TOBACCO	7.3	1.9	5.4	99.8	94.7	97	75	3.3	23.0	103.2	180.2	12.1
2141	TOBACCO STEMMING AND REDRYING.	52.8	13.3	39.6	902.2	900.9	(D)	94	11.4	66.0	153.6	1 656.8	14.1
22	TEXTILE MILL PRODUCTS.	1 223.5	198.9	1 024.5	5 509.9	5 103.5	(NA)	(NA)	952.6	6 051.0	11 715.8	28 063.9	1 127.4
2211	WEAVING MILLS, COTTON.	187.2	32.8	154.4	657.8	553.9	84	66	121.3	745.2	1 256.3	2 660.6	72.7
2221	WEAVING MILLS, MANMADE FIBER, SILK.	260.2	23.3	236.9	871.0	834.8	86	74	149.7	979.4	1 831.6	3 856.6	136.2
2231	WEAVING AND FINISHING MILLS, WOOL.	14.9	4.0	11.0	111.0	96.2	83	80	19.4	132.1	239.4	450.1	11.6
2241	NARROW FABRIC MILLS.	16.2	4.0	12.1	109.3								

See footnotes at end of table.

Table 4. Selected Statistics by Major Industry Group and Industry: 1977 and 1972—Con.

Code	Industry group and industry	1977									Value added by manu- facture (million dollars)	Value of ship- ments ¹ (million dollars)
		Companies (number)	All establishments		All employees		Production workers					
			Total (number)	With 20 employees or more (number)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (million)	Wages (million dollars)			
227	FLOOR COVERING MILLS	533	592	285	55.8	556.7	44.3	91.4	379.7	1 530.1	4 774.5	
2271	WOVEN CARPETS AND RUGS	71	71	16	2.8	24.8	2.5	4.7	20.0	47.1	138.7	
2272	TUFTED CARPETS AND RUGS	397	449	251	50.2	506.5	39.4	82.2	341.1	1 438.2	4 520.7	
2279	CARPETS AND RUGS, NFC	72	72	18	2.8	25.3	2.4	4.5	18.6	44.8	115.2	
228	YARN AND THREAD MILLS	529	798	508	140.5	1 184.4	127.3	258.2	994.3	2 254.5	6 114.4	
2281	YARN MILLS, EXCEPT WOOL	274	456	370	93.0	782.7	85.6	175.2	675.5	1 480.3	3 864.9	
2282	THROWING AND WINDING MILLS	170	196	148	30.5	262.3	27.1	54.5	210.4	490.4	1 510.1	
2283	WOOL YARN MILLS	71	76	43	4.1	33.1	3.7	7.3	27.3	81.8	194.9	
2284	THREAD MILLS	58	70	47	12.8	106.3	10.9	21.1	81.1	201.9	544.4	
229	MISCELLANEOUS TEXTILE GOODS	1 150	1 254	523	67.9	705.6	54.8	109.2	497.5	1 641.1	4 173.9	
2291	FELT GOODS, EXC. WOVEN FELT, HATS	37	46	27	4.3	50.7	3.3	6.7	33.1	103.0	197.7	
2292	LACE GOODS	68	71	24	2.2	17.9	1.9	3.6	14.0	27.7	45.9	
2293	PADDINGS AND UPHOLSTERY FILLING	113	120	56	5.2	52.9	4.1	8.4	36.4	124.5	251.8	
2294	PROCESSED TEXTILE WASTE	95	99	39	3.7	31.2	3.1	6.3	23.1	61.7	178.4	
2295	COATED FABRICS, NOT RUBBERIZED	175	191	109	13.6	182.3	9.9	20.9	117.1	413.1	1 059.0	
2296	TIRE CORD AND FABRIC	8	20	20	9.6	94.7	8.5	16.2	78.1	242.1	1 013.2	
2297	NONWOVEN FABRICS	81	100	74	13.0	139.8	10.4	21.1	100.2	386.0	864.4	
2298	CORDAGE AND TWINE	151	171	84	9.5	79.5	7.9	14.2	53.7	173.8	332.2	
2299	TEXTILE GOODS, NEC	432	436	90	6.7	56.6	5.7	11.8	41.8	109.2	231.1	
23	APPAREL, OTHER TEXTILE PRODS	23 754	26 505	11 932	1 334.3	9 658.6	1 156.6	2 037.6	7 252.6	19 671.3	40 245.1	
2311	MEN'S AND BOYS' SUITS AND COATS	619	737	467	98.7	822.2	86.2	152.9	645.4	1 574.4	2 767.5	
232	MEN'S AND BOYS' FURNISHINGS	2 121	3 013	2 129	364.5	2 340.1	323.4	575.3	1 863.5	4 935.2	10 003.2	
2321	MEN'S, BOYS' SHIRTS, NIGHTWEAR	669	928	679	114.7	711.3	103.0	184.1	569.9	1 445.7	2 934.6	
2322	MEN'S AND BOYS' UNDERWEAR	56	76	59	15.1	92.2	13.7	23.8	79.0	218.2	419.8	
2323	MEN'S AND BOYS' NECKWEAR	198	207	81	6.3	57.5	5.1	8.7	33.4	117.5	223.8	
2327	MEN'S AND BOYS' SEPARATE TROUSERS	404	514	335	70.9	474.0	61.9	107.6	372.0	845.6	1 718.0	
2328	MEN'S AND BOYS' WORK CLOTHING	347	656	575	113.7	719.4	101.6	183.7	589.9	1 765.4	3 641.9	
2329	MEN'S AND BOYS' CLOTHING, NEC	553	632	400	43.8	285.8	38.1	67.4	219.3	542.8	1 065.1	
233	WOMEN'S AND MISSES' OUTERWEAR	11 121	11 834	5 556	447.5	3 152.8	387.3	660.9	2 304.2	6 429.8	12 720.3	
2331	WOMEN'S, MISSES' BLOUSES, WAISTS	1 292	1 415	952	83.3	569.0	73.8	125.0	424.3	1 192.5	2 333.6	
2335	WOMEN'S AND MISSES' DRESSES	6 753	6 953	2 473	175.3	1 197.1	153.0	261.0	882.5	2 233.7	4 188.6	
2337	WOMEN'S, MISSES' SUITS AND COATS	1 558	1 672	1 067	84.7	654.0	72.7	123.3	468.5	1 429.6	2 912.9	
2339	WOMEN'S, MISSES' OUTERWEAR, NEC	1 625	1 794	1 064	104.1	732.7	87.9	151.5	528.9	1 574.0	3 285.1	
234	WOMEN'S, CHILDREN'S UNDERGARMENTS	693	878	595	91.8	613.2	78.6	139.6	448.9	1 249.7	2 430.8	
2341	WOMEN'S AND CHILDREN'S UNDERWEAR	548	698	479	72.9	472.1	63.4	112.6	359.8	915.3	1 780.8	
2342	BRASSIERES AND ALLIED GARMENTS	150	180	116	18.9	141.1	15.2	27.0	89.1	334.4	650.0	
235	HATS, CAPS, AND MILLINERY	381	409	169	15.1	105.2	13.3	23.8	79.1	185.5	359.9	
2351	MILLINERY	151	151	47	2.7	20.2	2.2	3.7	13.7	32.8	75.1	
2352	HATS AND CAPS, EXCEPT MILLINERY	230	258	122	12.4	85.1	11.1	20.1	65.3	152.7	284.8	
236	CHILDREN'S OUTERWEAR	844	1 002	686	71.2	459.1	61.2	107.6	348.9	879.2	1 717.3	
2361	CHILDREN'S DRESSES AND BLOUSES	455	519	374	35.2	228.4	30.4	52.5	169.7	444.6	824.7	
2363	CHILDREN'S COATS AND SUITS	108	120	70	6.7	45.8	5.7	9.7	35.1	90.2	173.8	
2369	CHILDREN'S OUTERWEAR, NEC	307	363	242	29.3	184.9	25.1	45.4	144.1	344.4	718.8	
2371	FUR GOODS	620	620	48	4.0	51.5	3.2	5.1	36.2	112.8	383.4	
238	MISC. APPAREL AND ACCESSORIES	1 207	1 284	593	56.3	407.5	47.9	84.8	288.2	845.3	1 649.5	
2381	FABRIC DRESS AND WORK GLOVES	100	132	92	10.9	69.0	9.9	18.0	56.3	160.9	312.4	
2384	ROBES AND DRESSING GOWNS	137	151	98	9.5	64.3	8.2	14.7	47.8	139.5	288.3	
2385	WATERPROOF OUTERGARMENTS	157	167	105	12.0	89.4	10.1	17.9	61.6	194.4	348.8	
2386	LEATHER AND SHEEP LINED CLOTHING	236	239	80	6.7	54.7	5.9	10.4	41.1	94.8	214.1	
2387	APPAREL BELTS	281	284	119	9.4	76.1	7.3	12.6	44.6	150.3	286.9	
2389	APPAREL AND ACCESSORIES, NEC	304	311	99	7.8	54.0	6.5	11.2	36.9	105.4	199.0	
239	MISC. FABRICATED TEXTILE PRODS	6 444	6 728	1 689	185.2	1 706.9	155.5	287.6	1 238.3	3 459.4	8 213.2	
2391	CURTAINS AND DRAPERIES	1 650	1 712	324	31.7	224.7	27.2	47.9	163.6	407.3	1 013.1	
2392	HOUSEFURNISHINGS, NFC	980	1 051	403	47.5	366.4	39.8	75.4	260.0	782.9	2 294.0	
2393	TEXTILE BAGS	211	228	90	8.2	66.7	6.8	12.9	46.8	122.2	321.8	
2394	CANVAS AND RELATED PRODUCTS	987	1 003	148	13.9	121.6	11.0	19.3	75.1	237.4	486.8	
2395	PLEATING AND STITCHING	770	778	206	16.1	130.9	13.2	22.9	89.0	281.8	620.2	
2396	AUTOMOTIVE AND APPAREL TRIMMINGS	686	715	188	30.9	476.4	26.3	51.7	374.0	1 000.2	2 166.3	
2397	SCHIFFLI MACHINE EMBROIDERIES	357	363	58	6.0	56.3	5.3	10.4	42.5	96.7	158.0	
2399	FABRICATED TEXTILE PRODUCTS, NEC	845	878	272	31.1	263.8	26.0	47.1	187.4	531.0	1 152.9	
24	LUMBER AND WOOD PRODUCTS	34 962	37 302	7 056	692.4	7 424.7	594.8	1 147.6	5 795.0	16 222.9	39 919.4	
2411	LOGGING CAMPS, LOG CONTRACTORS	15 344	15 469	708	83.3	1 009.0	74.5	127.7	840.1	2 418.7	6 230.1	
242	SAWMILLS AND PLANING MILLS	8 263	9 000	2 273	211.3	2 228.3	187.8	375.8	1 849.0	4 975.0	11 969.3	
2421	SAWMILLS, PLANING MILLS, GENERAL	6 966	7 544	1 827	175.2	1 943.0	155.8	315.6	1 622.7	4 452.8	10 866.7	
2426	HARDWOOD DIMENSION AND FLOORING	845	890	345	29.1	225.0	25.8	49.8	177.5	413.1	850.0	
2429	SPECIAL PRODUCT SAWMILLS, NEC	522	566	101	7.0	60.3	6.1	10.4	48.8	109.1	252.6	
243	MILLWORK, PLYWOOD, STRUC. MEMBS.	5 710	6 149	1 878	197.1	2 216.4	167.4	328.8	1 714.9	4 700.4	11 381.9	
2431	MILLWORK	2 209	2 333	692	68.6	742.2	56.6	108.4	542.0	1 497.9	3 928.1	
2434	WOOD KITCHEN CABINETS	2 451	2 583	510	46.2	481.1	38.7	72.3	352.3	868.6	1 590.8	
2435	HARDWOOD VENEER AND PLYWOOD	274	321	227	22.3	211.5	19.1	37.9	162.0	420.2	1 250.4	
2436	SOFTWOOD VENEER AND PLYWOOD	129	256	224	46.2	634.6	41.9	89.4	556.9	1 583.7	3 804.8	
2439	STRUCTURAL WOOD MEMBERS, NEC	620	656	225	13.8	147.0	11.0	20.8	101.6	330.0	807.7	
244	WOOD CONTAINERS	1 882	1 949	540	37.8	299.6	33.4	61.3	233.7	539.7	1 217.1	
2441	NAILED WOOD BOXES AND SHOOK	391	396	110	8.6	68.6	7.5	13.7	53.6	116.2	263.3	
2448	WOOD PALLETS AND SKIDS	1 267	1 290	348	20.3	163.8	17.9	32.1	126.3	303.1	698.0	
2449	WOOD CONTAINERS, NEC	238	263	82	8.9	67.2	8.0	15.5	53.7	120.4	255.8	
245	WOOD BUILDINGS AND MOBILE HOMES	803	1 165	752	79.5	858.2	63.0	121.1	576.2	1 789.1	5 147.9	

See footnotes at end of table.

Table 4. Selected Statistics by Major Industry Group and Industry: 1977 and 1972—Con.

Code	Industry group and industry	1977--Continued								1972				
		New capital expenditures ⁴			Inventories		Ratios			All employees		Value added by manu- facture (million dollars)	Value of ship- ments ¹ (million dollars)	New capital- expend- itures (million dollars)
		Total (million dollars)	Struc- tures and additions to plant (million dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Spe- cial- iza- tion (per- cent)	Cov- er- age (per- cent)	Num- ber (1,000)	Payroll (million dollars)				
227	FLOOR COVERING MILLS	82.5	12.1	70.4	753.5	694.2	(NA)	(NA)	59.9	415.3	1 076.0	3 153.0	74.7	
2271	WOVEN CARPETS AND RUGS	1.1	.4	.8	26.9	23.9	(D)	81	6.5	44.5	93.2	212.3	3.2	
2272	TUFTED CARPETS AND RUGS.	78.7	11.1	67.6	696.8	644.1	96	99	50.1	348.0	926.8	2 775.2	67.1	
2279	CARPETS AND RUGS, NEC.	2.6	.6	2.0	29.9	26.2	(D)	74	3.3	23.6	58.2	165.5	4.4	
228	YARN AND THREAD MILLS.	180.0	23.9	156.1	616.0	592.1	(NA)	(NA)	147.5	866.1	1 579.5	4 242.8	221.7	
2281	YARN MILLS, EXCEPT WOOL.	114.4	13.5	101.0	363.6	362.2	92	72	89.6	516.3	867.2	2 248.3	96.3	
2282	THROWING AND WINDING MILLS.	51.1	8.3	42.9	132.3	122.1	92	55	38.0	230.9	477.8	1 427.6	113.7	
2283	WOOL YARN MILLS.	2.7	.2	2.5	17.4	18.7	90	71	8.3	49.7	92.7	221.4	4.2	
2284	THREAD MILLS.	11.8	2.0	9.8	102.7	89.2	96	91	11.7	69.2	141.8	345.4	7.5	
229	MISCELLANEOUS TEXTILE GOODS.	112.0	29.4	82.6	641.3	610.5	(NA)	(NA)	71.9	539.7	1 149.4	2 813.1	82.3	
2291	FELT GOODS, EXC. WOVEN FELT, HATS.	5.7	1.5	4.3	36.3	33.0	82	82	5.0	38.3	80.5	146.5	2.8	
2292	LACE GOODS.	1.0	.2	.8	12.6	11.7	98	98	2.9	17.3	29.4	47.1	1.7	
2293	PADDINGS AND UPHOLSTERY FILLING.	5.8	1.9	4.0	19.6	19.1	92	84	4.4	34.2	64.5	134.6	2.9	
2294	PROCESSED TEXTILE WASTE.	5.8	1.9	3.9	27.5	26.2	98	95	3.6	22.2	50.9	133.8	3.2	
2295	COATED FABRICS, NOT RUBBERIZED.	26.0	7.8	18.2	190.0	188.4	87	89	18.0	167.8	382.4	865.8	29.6	
2296	TIRE CORD AND FABRIC.	7.0	.5	6.6	126.7	130.0	90	99	10.0	70.0	145.8	685.1	8.8	
2297	NONWOVEN FABRICS.	41.1	10.5	30.5	121.5	104.0	86	66	10.8	80.6	191.8	397.4	15.0	
2298	CORDAGE AND TWINE.	6.5	1.7	4.9	79.4	73.4	90	95	9.0	55.4	96.3	191.0	4.9	
2299	TEXTILE GOODS, NEC.	13.0	3.5	9.4	27.8	24.7	96	68	8.3	53.9	107.7	211.8	13.4	
23	APPAREL, OTHER TEXTILE PRODS.	456.7	114.0	342.6	5 535.8	5 125.3	(NA)	(NA)	1 368.3	7 212.0	13 487.5	27 809.2	363.5	
2311	MEN'S AND BOYS' SUITS AND COATS.	25.8	5.8	20.0	470.5	416.8	93	92	124.8	770.3	1 342.2	2 396.9	22.5	
232	MEN'S AND BOYS' FURNISHINGS.	118.3	32.2	86.1	1 547.6	1 409.0	(NA)	(NA)	363.4	1 692.3	3 241.6	6 904.6	90.2	
2321	MEN'S, BOYS' SHIRTS, NIGHTWEAR.	25.9	6.2	19.7	501.4	442.6	92	92	113.4	514.9	1 003.8	2 104.3	24.1	
2322	MEN'S AND BOYS' UNDERWEAR.	2.6	.5	2.0	55.1	50.8	87	91	16.0	68.6	130.9	239.3	5.7	
2323	MEN'S AND BOYS' NECKWEAR.	2.6	.8	1.8	29.6	26.3	100	97	11.1	70.0	143.4	294.9	4.0	
2327	MEN'S AND BOYS' SEPARATE TROUSERS.	22.8	5.0	17.9	281.9	279.8	84	88	91.3	439.3	784.9	1 745.0	22.2	
2328	MEN'S AND BOYS' WORK CLOTHING.	44.1	13.8	30.3	477.7	427.4	89	94	89.6	389.0	784.8	1 738.0	24.1	
2329	MEN'S AND BOYS' CLOTHING, NEC.	20.2	5.9	14.3	201.9	182.2	83	80	41.9	210.4	393.8	783.2	10.1	
233	WOMEN'S AND MISSES' OUTERWEAR.	133.6	36.9	96.7	1 338.2	1 259.4	(NA)	(NA)	432.6	2 269.6	4 102.0	8 278.2	98.3	
2331	WOMEN'S, MISSES' BLOUSES, WAISTS.	24.0	4.9	19.2	222.5	197.3	85	75	63.0	328.1	592.4	1 254.9	30.0	
2335	WOMEN'S AND MISSES' DRESSSES.	45.2	10.8	34.5	386.1	363.0	95	95	211.6	1 076.9	1 888.7	3 580.0	32.6	
2337	WOMEN'S, MISSES' SUITS AND COATS.	22.0	7.5	14.5	297.0	291.1	80	83	75.9	446.7	839.8	1 805.3	16.4	
2339	WOMEN'S, MISSES' OUTERWEAR, NEC.	42.4	13.8	28.5	432.6	408.0	80	81	82.1	417.9	781.0	1 638.0	19.3	
234	WOMEN'S, CHILDREN'S UNDERGARMENTS.	22.9	6.3	16.7	397.7	373.1	(NA)	(NA)	105.4	524.8	1 049.0	1 978.9	24.0	
2341	WOMEN'S AND CHILDREN'S UNDERWEAR.	18.7	5.5	13.2	275.9	256.5	95	87	77.5	372.0	709.0	1 331.9	19.3	
2342	BRASSIERES AND ALLIED GARMENTS.	4.2	.8	3.5	121.9	116.7	92	99	28.0	152.8	340.0	647.0	4.6	
235	HATS, CAPS, AND MILLINERY.	4.1	1.2	2.9	57.5	53.4	(NA)	(NA)	14.5	72.6	133.4	229.1	2.2	
2351	MILLINERY. . . . .	.2	(2)	.2	5.8	5.7	99	(D)	3.2	17.0	33.2	58.1	.3
2352	HATS AND CAPS, EXCEPT MILLINERY.	3.9	1.2	2.7	51.7	47.6	96	94	11.3	55.6	100.2	171.0	1.9	
236	CHILDREN'S OUTERWEAR.	14.4	2.5	12.0	245.7	239.5	(NA)	(NA)	74.8	367.5	709.1	1 421.9	19.8	
2361	CHILDREN'S DRESSES AND BLOUSES.	6.4	1.2	5.2	106.5	94.9	89	87	35.4	174.4	335.8	655.2	12.9	
2363	CHILDREN'S COATS AND SUITS.	1.3	.2	1.1	20.7	17.1	87	78	9.2	48.5	90.4	188.5	.8	
2369	CHILDREN'S OUTERWEAR, NEC.	6.7	1.1	5.6	118.5	127.5	84	77	30.1	144.6	282.9	578.2	6.1	
2371	FUR GOODS. . . . .	.5	.2	.3	46.5	41.3	100	99	4.7	41.2	86.2	220.0	1.1
238	MISC. APPAREL AND ACCESSORIES.	20.7	5.2	15.5	274.7	242.9	(NA)	(NA)	61.9	334.6	635.9	1 280.0	14.9	
2381	FABRIC DRESS AND WORK GLOVES.	3.5	.4	3.1	42.1	39.1	91	84	11.9	56.3	100.3	198.8	1.9	
2384	ROBES AND DRESSING GOWNS.	3.3	.9	2.5	44.1	38.0	89	93	10.0	50.0	92.5	202.8	2.0	
2385	WATERPROOF OUTERGARMENTS.	5.6	2.1	3.5	59.6	52.6	91	90	15.4	86.4	168.8	332.1	2.4	
2386	LEATHER AND SHEEP LINED CLOTHING.	1.6	.6	.9	32.3	25.8	97	91	7.0	40.8	82.1	172.1	2.5	
2387	APPAREL BELTS.	2.5	.3	2.2	50.9	43.9	88	96	10.3	65.9	132.5	257.5	3.2	
2389	APPAREL AND ACCESSORIES, NEC.	4.2	1.0	3.2	45.7	43.4	90	95	7.3	35.3	59.7	116.8	2.8	
239	MISC. FABRICATED TEXTILE PRODS.	116.4	23.7	92.7	1 157.4	1 090.0	(NA)	(NA)	186.2	1 139.1	2 188.2	5 099.5	90.4	
2391	CURTAINS AND DRAPERIES.	7.2	1.6	5.6	151.2	140.5	95	93	33.9	167.1	302.3	754.9	9.5	
2392	HOUSEFURNISHINGS, NEC.	26.9	6.3	20.6	393.0	345.7	89	61	50.3	281.9	585.2	1 526.9	29.9	
2393	TEXTILE BAGS.	5.8	1.4	4.4	59.4	57.6	82	84	7.9	44.0	74.5	255.1	5.5	
2394	CANVAS AND RELATED PRODUCTS.	8.4	2.2	6.2	101.0	91.5	93	92	12.9	75.9	130.3	276.4	4.0	
2395	PLEATING AND STITCHING.	9.3	1.8	7.5	82.9	75.5	96	98	16.7	89.2	174.7	308.2	3.2	
2396	AUTOMOTIVE AND APPAREL TRIMMINGS.	36.1	6.4	29.6	194.3	214.7	98	96	27.6	266.6	530.8	1 133.0	10.4	
2397	SCHIFFLI MACHINE EMBROIDERIES.	3.3	.4	2.9	10.1	8.9	97	98	5.5	38.9	75.0	120.5	2.2	
2399	FABRICATED TEXTILE PRODUCTS, NEC.	19.4	3.7	15.7	165.4	155.6	94	89	31.4	175.3	315.5	724.7	25.9	
24	LUMBER AND WOOD PRODUCTS.	1 562.6	290.9	1 271.6	4 663.8	4 258.1	(NA)	(NA)	691.0	4 985.6	10 310.2	23 829.7	931.2	
2411	LOGGING CAMPS, LOG CONTRACTORS.	386.5	56.3	330.2	555.8	520.6	97	94	80.0	523.9	1 163.4	2 529.5	157.0	
242	SAWMILLS AND PLANING MILLS.	584.2	100.0	484.2	1 598.8	1 493.2	(NA)	(NA)	204.4	1 488.4	3 259.3	7 244.3	329.3	
2421	SAWMILLS, PLANING MILLS, GENERAL.	535.8	86.8	449.0	1 420.6	1 333.7	92	93	166.6	1 272.2	2 906.0	6 470.8	306.8	
2426	HARDWOOD DIMENSION AND FLOORING.	35.3	9.3	26.0	147.4	125.3	91	92	31.5	173.9	272.1	579.0	16.8	
2429	SPECIAL PRODUCT SAWMILLS, NEC.	13.1	3.9	9.2	30.8	34.2	98	92	6.4	40.0	80.4	180.8	5.7	
243	MILLWORK, PLYWOOD, STRUC. MEMBS.	272.7	58.5	214.2	1 344.9	1 208.3	(NA)	(NA)	190.7	1 474.3	2 908.4	6 703.3	194.8	
2431	MILLWORK.	81.0	27.6	53.3	605.0	545.3	94	94	70.5	524.5	962.7	2 426.8	57.2	
2434	WOOD KITCHEN CABINETS.	36.7	11.3	25.5	212.3	187.2	96	96	38.8	286.6	486.7	897.2	28.3	
2435	HARDWOOD VENEER AND PLYWOOD.	29.6	3.7	25.9	197.7	176.1	91	93	25.1	165.2	340.8	911.8	32.1	
2436	SOFTWOOD VENEER AND PLYWOOD.	105.6	10.6	95.1	242.6	229.2	88	91	43.7	403.6	935.4	2 011.5	65.4	
2439	STRUCTURAL WOOD MEMBERS, NEC.	19.7	5.4	14.4	87.3	70.5	94	93	12.6	94.4	182.8	456.0	11.8	
244	WOOD CONTAINERS.	29.6	6.3	23.3	139.9	134.4	(NA)	(NA)	36.8	203.8	358.8	773.5	21.2	
2441	NAILED WOOD BOXES AND SHOOK.	5.4	1.3	4.1	31.2	30.2	89	83	10.7	61.1	103.8	237.9	6.4	
2448	WOOD PALLETS AND SKIDS.	21.3	4.4	17.0	58.1	52.4	90	91						

See footnotes at end of table.

Table 4. Selected Statistics by Major Industry Group and Industry: 1977 and 1972—Con.

Code	Industry group and industry	1977									Value added by manu- facture (million dollars)	Value of ship- ments ¹ (million dollars)
		Companies (number)	All establishments		All employees		Production workers					
			Total (number)	With 20 employees or more (number)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (million)	Wages (million dollars)			
2451	MOBILE HOMES	308	597	465	50.5	527.6	41.8	80.5	371.8	1 030.5	3 199.3	
2452	PREFABRICATED WOOD BUILDINGS	512	568	287	29.0	330.6	21.2	40.6	204.4	758.6	1 948.6	
249	MISCELLANEOUS WOOD PRODUCTS	3 292	3 570	905	83.4	813.3	68.8	132.8	581.2	1 799.9	3 973.1	
2491	WOOD PRESERVING	366	457	192	12.6	126.1	9.9	19.7	82.9	327.1	962.6	
2492	PARTICLEBOARD	36	63	51	6.2	79.1	5.0	10.9	60.3	207.2	452.9	
2499	WOOD PRODUCTS, NEC	2 909	3 050	662	64.6	608.1	53.9	102.3	438.0	1 265.5	2 557.6	
25	FURNITURE AND FIXTURES	9 421	10 235	3 588	463.8	4 448.3	383.6	736.4	3 191.8	8 921.7	16 978.0	
251	HOUSEHOLD FURNITURE	5 585	6 161	2 224	309.7	2 669.2	265.2	505.3	1 998.7	5 212.7	10 392.1	
2511	WOOD HOUSEHOLD FURNITURE	2 795	2 983	816	141.0	1 138.8	124.8	245.0	898.7	2 239.9	4 148.8	
2512	UPHOLSTERED HOUSEHOLD FURNITURE	1 357	1 473	730	89.1	779.2	75.7	137.6	583.9	1 437.3	2 931.0	
2514	METAL HOUSEHOLD FURNITURE	405	448	213	33.2	302.7	27.4	51.6	208.6	637.4	1 307.1	
2515	MATTRESSES AND BEDSPRINGS	832	962	355	27.0	279.8	20.6	39.3	175.3	616.6	1 398.5	
2517	WOOD TV AND RADIO CABINETS	91	94	51	10.7	89.0	9.3	17.6	70.5	150.4	304.8	
2519	HOUSEHOLD FURNITURE, NEC	198	201	59	8.7	79.7	7.5	14.3	61.7	131.0	301.9	
252	OFFICE FURNITURE	483	523	233	45.0	542.6	35.1	69.1	375.9	1 236.1	2 009.4	
2521	WOOD OFFICE FURNITURE	319	331	119	16.0	165.0	12.8	25.5	110.2	381.3	612.0	
2522	METAL OFFICE FURNITURE	167	192	114	29.0	377.6	22.3	43.6	265.7	854.8	1 397.4	
2531	PUBLIC BLDG., RELATED FURNITURE	401	420	185	20.0	214.3	15.0	29.2	132.9	414.9	787.4	
254	PARTITIONS AND FIXTURES	2 067	2 134	666	57.4	675.1	44.3	85.9	454.2	1 311.0	2 408.8	
2541	WOOD PARTITIONS AND FIXTURES	1 572	1 598	394	29.4	352.9	23.0	45.3	241.0	621.4	1 105.8	
2542	METAL PARTITIONS AND FIXTURES	508	536	272	28.0	322.2	21.3	40.5	213.2	689.7	1 303.0	
259	MISC. FURNITURE AND FIXTURES	964	997	280	31.7	347.0	24.0	46.9	230.1	746.9	1 380.3	
2591	DRAPERY HARDWARE, BLINDS, SHADES	435	456	85	13.6	145.6	10.3	20.0	99.1	345.0	675.1	
2599	FURNITURE AND FIXTURES, NEC	528	541	195	18.1	201.4	13.7	27.0	131.0	401.9	705.2	
26	PAPER AND ALLIED PRODUCTS	4 394	6 545	3 999	628.7	8 942.9	486.3	985.9	6 323.1	22 170.9	52 085.7	
2611	PULPMILLS	26	45	42	16.2	293.2	12.5	25.4	220.7	906.1	2 091.1	
2621	PAPERMILLS, EXCEPT BUILDING PAPER	171	339	287	127.0	2 167.0	100.4	210.4	1 631.7	5 406.6	12 613.3	
2631	PAPERBOARD MILLS	120	249	232	67.6	1 175.8	53.0	112.5	888.0	3 080.7	7 124.3	
264	MISC. CONVERTED PAPER PRODUCTS	2 323	2 994	1 435	206.7	2 608.1	158.0	316.1	1 771.3	7 263.0	16 433.2	
2641	PAPER COATING AND GLAZING	454	529	239	39.7	551.2	27.2	56.8	335.1	1 507.0	3 392.0	
2642	ENVELOPES	182	265	184	22.6	270.0	17.6	34.6	182.4	503.4	990.5	
2643	BAGS, EXCEPT TEXTILE BAGS	462	596	355	48.7	584.1	38.8	77.6	411.7	1 349.6	3 482.3	
2645	DIE-CUT PAPER AND BOARD	316	371	141	14.3	174.6	11.3	22.7	119.6	429.5	1 057.7	
2646	PRESSED AND MOLDED PULP GOODS	25	38	27	4.9	58.8	4.0	8.4	48.7	153.7	240.3	
2647	SANITARY PAPER PRODUCTS	72	120	89	34.5	509.1	27.4	54.5	381.8	2 194.5	4 921.2	
2648	STATIONERY PRODUCTS	219	242	109	12.6	135.2	9.8	18.5	91.0	291.0	651.7	
2649	CONVERTED PAPER PRODUCTS, NEC	783	833	291	29.4	325.1	21.9	43.3	201.1	834.3	1 697.5	
265	PAPERBOARD CONTAINERS AND BOXES	1 794	2 860	1 950	204.1	2 601.8	156.5	309.0	1 733.4	5 296.3	13 350.1	
2651	FOLDING PAPERBOARD BOXES	452	574	374	44.7	577.8	35.8	71.8	409.8	1 136.8	2 579.0	
2652	SETUP PAPERBOARD BOXES	280	312	209	13.1	115.3	11.2	20.6	80.8	211.6	360.5	
2653	CORRUGATED AND SOLID FIBER BOXES	863	1 472	1 034	101.5	1 374.8	73.5	146.5	867.0	2 704.1	7 351.1	
2654	SANITARY FOOD CONTAINERS	122	193	138	28.7	336.7	22.7	43.5	228.2	836.8	2 048.4	
2655	FIBER CANS, DRUMS, SIMILAR PRODS	166	309	195	16.1	197.3	13.4	26.7	147.6	406.9	1 011.1	
2661	BUILDING PAPER AND BOARD MILLS	19	58	53	7.0	96.9	5.9	12.5	77.9	218.2	473.7	
27	PRINTING AND PUBLISHING	46 604	49 767	9 132	1 092.2	14 024.5	625.8	1 152.8	7 322.1	31 979.5	49 716.2	
2711	NEWSPAPERS	7 821	8 867	2 147	349.9	4 306.0	147.2	252.5	1 805.3	9 519.1	13 055.9	
2721	PERIODICALS	2 860	2 994	525	69.9	1 019.8	10.6	20.5	115.7	3 762.7	6 056.5	
273	BOOKS	2 536	2 694	716	106.4	1 378.5	50.9	97.5	544.2	4 291.1	6 485.7	
2731	BOOK PUBLISHING	1 650	1 744	346	59.5	830.2	13.3	24.9	140.1	3 261.9	4 793.9	
2732	BOOK PRINTING	897	950	370	46.9	548.2	37.6	72.6	404.1	1 029.2	1 691.8	
2741	MISCELLANEOUS PUBLISHING	2 266	2 352	335	42.1	503.0	15.4	27.1	150.3	1 290.7	1 850.9	
275	COMMERCIAL PRINTING	26 109	26 815	3 637	356.0	4 701.8	275.1	511.3	3 275.3	8 551.2	15 015.8	
2751	COMMERCIAL PRINTING, LETTERPRESS	14 375	14 521	1 059	110.9	1 307.3	88.0	159.6	913.6	2 440.6	4 284.3	
2752	COMMERCIAL PRINTING, LITHOGRAPHIC	10 964	11 320	2 362	216.3	2 984.1	163.7	307.4	2 045.7	5 338.4	9 359.7	
2753	ENGRAVING AND PLATE PRINTING	511	550	118	9.8	118.9	7.6	13.5	84.5	230.8	314.9	
2754	COMMERCIAL PRINTING, GRAVURE	401	424	98	19.0	291.6	15.8	30.8	231.5	541.4	1 056.8	
2761	MANIFOLD BUSINESS FORMS	601	795	477	45.3	575.0	33.3	67.3	390.9	1 491.6	2 893.8	
2771	GREETING CARD PUBLISHING	155	166	52	18.1	226.8	10.6	21.7	105.8	655.9	1 072.1	
278	BLANKBOOKS AND BOOKBINDING	1 343	1 492	576	55.9	579.1	46.1	88.6	418.6	1 148.7	1 656.2	
2782	BLANKBOOKS AND LOOSELEAF BINDERS	371	505	288	31.8	338.5	25.2	49.8	235.0	739.9	1 122.6	
2789	BOOKBINDING AND RELATED WORK	974	987	288	24.1	240.6	20.9	38.8	183.6	408.8	533.6	
279	PRINTING TRADE SERVICES	3 492	3 592	667	48.4	734.6	36.4	66.5	516.0	1 268.4	1 629.4	
2791	TYPESETTING	2 370	2 406	389	27.2	364.7	21.7	38.8	271.6	623.4	730.6	
2793	PHOTOENGRAVING	440	449	56	5.7	89.3	3.8	6.8	58.4	168.2	218.0	
2794	ELECTROTYPING AND STEREOTYPING	40	40	5	.4	6.8	.3	.5	4.6	10.0	13.8	
2795	LITHOGRAPHIC PLATEMAKING SERVICES	677	697	217	15.2	273.9	10.6	20.4	181.5	466.8	667.0	
28	CHEMICALS AND ALLIED PRODUCTS	8 510	12 173	4 602	880.2	13 839.3	543.6	1 089.7	7 446.2	56 720.6	118 153.6	
281	INDUSTRIAL INORGANIC CHEMICALS	550	1 282	490	110.0	1 847.2	67.8	138.6	1 033.4	6 487.2	12 845.0	
2812	ALKALIES AND CHLORINE	30	49	33	11.8	215.9	8.0	16.0	136.2	822.5	1 654.8	
2813	INDUSTRIAL GASES	109	562	102	7.5	117.2	4.6	9.6	67.0	732.8	1 234.6	
2816	INORGANIC PIGMENTS	71	106	66	11.9	179.8	8.0	16.4	110.2	567.9	1 259.9	

See footnotes at end of table.

Table 4. Selected Statistics by Major Industry Group and Industry: 1977 and 1972-Con.

Code	Industry group and industry	1977--Continued						1972					
		New capital expenditures ⁴			Inventories		Ratios		All employees		Value added by manu- facture		
		Total (million dollars)	Struc- tures and additions (million dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Spe- cial- iza- tion (per- cent)	Cov- er- age (per- cent)	Num- ber (1,000)	Payroll (million dollars)	Value added by manu- facture (million dollars)	Value of ship- ments ¹ (million dollars)	New capital expend- itures (million dollars)
2451	MOBILE HOMES	69.8	27.1	42.7	193.3	165.5	99	99	71.9	547.3	1 033.9	3 242.9	63.4
2452	PREFABRICATED WOOD BUILDINGS	40.2	15.9	24.3	229.1	184.5	98	98	25.2	198.1	457.1	1 046.1	29.6
2490	MISCELLANEOUS WOOD PRODUCTS	179.7	26.8	152.9	602.1	551.6	(NA)	(NA)	82.0	549.9	1 129.4	2 290.1	135.7
2491	WOOD PRESERVING	30.3	3.3	27.0	212.5	184.5	97	97	11.3	74.5	175.8	475.8	14.8
2492	PARTICLEBOARD	32.5	3.2	29.3	21.1	21.7	99	95	7.7	65.5	144.5	295.4	34.6
2499	WOOD PRODUCTS, NEC	116.9	20.3	96.5	368.5	345.4	94	93	63.0	410.0	809.1	1 518.9	86.3
25	FURNITURE AND FIXTURES	388.7	119.2	269.4	2 750.3	2 504.7	(NA)	(NA)	462.0	3 205.4	6 097.1	11 320.3	306.2
251	HOUSEHOLD FURNITURE	211.2	60.1	151.1	1 637.3	1 515.4	(NA)	(NA)	317.4	2 023.7	3 860.5	7 409.6	202.6
2511	WOOD HOUSEHOLD FURNITURE	101.9	26.8	75.2	821.5	771.6	94	96	133.8	806.8	1 556.9	2 870.0	93.8
2512	UPHOLSTERED HOUSEHOLD FURNITURE	50.4	16.6	33.9	378.6	341.2	91	96	92.0	605.3	1 104.0	2 104.7	54.7
2514	METAL HOUSEHOLD FURNITURE	22.8	4.7	18.1	217.0	197.9	89	91	34.4	222.5	447.2	890.4	16.9
2515	MATTRESSES AND BEDSPRINGS	14.5	3.7	10.8	155.6	142.7	95	86	31.4	233.7	479.9	1 041.7	20.7
2517	WOOD TV AND RADIO CABINETS	11.1	5.1	6.0	30.5	31.6	92	90	18.9	111.2	176.9	330.2	9.5
2519	HOUSEHOLD FURNITURE, NEC	10.4	3.3	7.1	34.1	30.5	79	84	6.9	44.2	95.6	172.6	7.0
252	OFFICE FURNITURE	67.6	23.8	43.8	344.4	299.6	(NA)	(NA)	39.3	330.0	659.9	1 111.2	31.8
2521	WOOD OFFICE FURNITURE	26.5	12.4	14.1	107.1	88.4	85	90	11.5	80.1	146.7	249.7	7.3
2522	METAL OFFICE FURNITURE	41.1	11.4	29.7	237.2	211.1	94	92	27.8	249.9	513.2	861.5	24.5
2531	PUBLIC BLDG., RELATED FURNITURE	22.3	6.8	15.5	138.3	122.0	88	87	-	-	-	-	-
254	PARTITIONS AND FIXTURES	58.9	19.4	39.5	394.7	351.2	(NA)	(NA)	57.4	483.9	871.0	1 527.7	34.0
2541	WOOD PARTITIONS AND FIXTURES	22.4	7.4	15.0	158.2	141.8	92	88	31.2	268.2	458.6	793.2	14.6
2542	METAL PARTITIONS AND FIXTURES	36.5	12.0	24.5	236.5	209.4	89	91	26.2	215.7	412.4	734.5	19.4
2549	MISC. FURNITURE AND FIXTURES	28.7	9.2	19.5	235.7	216.5	(NA)	(NA)	26.5	209.9	409.9	736.5	24.7
2591	DRAPERY HARDWARE, BLINDS, SHADES	16.7	5.8	10.9	115.6	106.4	95	96	12.1	94.4	198.2	364.5	9.9
2599	FURNITURE AND FIXTURES, NEC	12.0	3.3	8.6	120.1	110.1	87	82	14.5	115.5	211.7	372.0	14.8
26	PAPER AND ALLIED PRODUCTS	3 295.0	326.0	2 969.0	5 641.5	5 281.0	(NA)	(NA)	633.4	5 992.1	13 064.1	28 261.9	1 335.3
2611	PULPMILLS	301.1	13.0	288.0	257.0	223.6	86	72	10.6	125.7	306.9	709.9	136.4
2621	PAPERMILLS, EXCEPT BUILDING PAPER	1 115.2	70.3	1 044.8	1 259.5	1 209.8	92	92	129.9	1 439.6	2 909.3	6 385.2	372.3
2631	PAPERBOARD MILLS	933.7	71.4	862.3	537.5	509.1	84	92	68.5	778.2	1 994.4	4 153.5	313.5
264	MISC. CONVERTED PAPER PRODUCTS	507.4	95.2	412.2	1 943.0	1 746.3	(NA)	(NA)	189.1	1 630.0	4 008.2	8 452.4	288.6
2641	PAPER COATING AND GLAZING	98.7	15.2	83.5	451.2	420.5	80	87	37.2	366.6	984.4	1 954.0	52.3
2642	ENVELOPES	22.9	3.5	19.4	122.2	109.9	97	93	22.9	194.6	347.1	620.8	17.4
2643	BAGS, EXCEPT TEXTILE BAGS	93.4	19.4	74.0	424.9	410.8	88	90	48.6	385.5	840.5	1 885.7	53.9
2645	DIE-CUT PAPER AND BOARD	15.3	2.8	12.5	114.3	94.0	88	84	15.2	132.5	301.6	676.3	10.6
2646	PRESSED AND MOLDED PULP GOODS	10.9	1.0	9.9	24.5	22.0	98	99	6.1	51.8	100.6	162.8	7.0
2647	SANITARY PAPER PRODUCTS	199.1	39.0	160.1	409.9	333.8	93	99	26.3	256.1	882.8	2 071.8	119.6
2648	STATIONERY PRODUCTS	15.9	4.1	11.8	118.2	114.4	86	80	14.7	106.3	225.6	450.5	9.3
2649	CONVERTED PAPER PRODUCTS, NEC	51.1	10.1	41.0	277.7	241.0	88	81	18.1	136.6	325.6	630.6	18.5
265	PAPERBOARD CONTAINERS AND BOXES	421.0	73.8	347.2	1 599.4	1 549.0	(NA)	(NA)	223.7	1 907.0	3 598.8	8 104.7	205.5
2651	FOLDING PAPERBOARD BOXES	89.8	14.2	75.5	421.8	402.2	87	91	45.3	398.1	739.7	1 487.0	37.4
2652	SETUP PAPERBOARD BOXES	8.8	2.0	6.8	48.2	46.4	93	87	18.1	111.6	195.9	321.3	6.4
2653	CORRUGATED AND SOLID FIBER BOXES	243.3	43.1	200.1	664.8	668.4	99	99	107.9	976.3	1 736.9	4 308.8	101.5
2654	SANITARY FOOD CONTAINERS	52.4	10.2	42.2	345.5	320.9	87	86	35.1	277.7	659.8	1 419.7	42.3
2655	FIBER CANS, DRUMS, SIMILAR PRODS	26.7	4.3	22.4	119.2	111.1	93	89	17.3	143.3	266.4	568.0	17.9
2661	BUILDING PAPER AND BOARD MILLS	16.6	2.2	14.4	45.0	43.1	93	83	11.6	111.6	246.5	456.2	18.8
27	PRINTING AND PUBLISHING	1 597.8	310.5	1 287.2	4 200.6	3 943.0	(NA)	(NA)	1 056.5	9 831.2	20 209.5	30 146.4	1 047.7
2711	NEWSPAPERS	478.1	93.5	384.6	382.1	371.8	96	100	348.5	3 168.1	6 219.9	8 262.8	359.5
2721	PERIODICALS	78.9	22.4	56.5	349.6	314.7	90	96	66.5	708.5	2 109.9	3 510.6	56.8
273	BOOKS	134.1	25.4	108.8	1 186.0	1 153.7	(NA)	(NA)	98.1	918.9	2 540.3	3 794.5	82.3
2731	BOOK PUBLISHING	79.8	16.3	63.5	992.0	963.4	94	88	57.1	557.7	1 935.8	2 856.8	48.4
2732	BOOK PRINTING	54.3	9.1	45.3	194.0	190.3	85	78	40.9	361.2	604.5	937.7	33.9
2741	MISCELLANEOUS PUBLISHING	39.1	14.1	25.0	139.1	121.7	95	89	38.8	331.2	775.8	1 070.2	22.7
275	COMMERCIAL PRINTING	639.5	114.9	524.6	1 359.8	1 200.1	(NA)	(NA)	344.2	3 277.4	5 695.0	9 329.7	377.8
2751	COMMERCIAL PRINTING, LETTERPRESS	163.0	32.0	131.0	372.7	345.8	89	81	130.1	1 131.7	2 003.0	3 291.8	129.2
2752	COMMERCIAL PRINTING, LITHOGRAPHIC	360.2	56.9	303.3	861.9	747.1	87	88	184.0	1 835.3	3 155.1	5 124.8	220.6
2753	ENGRAVING AND PLATE PRINTING	17.8	3.5	14.3	23.5	20.6	88	92	9.6	80.7	152.4	201.6	5.1
2754	COMMERCIAL PRINTING, GRAVURE	98.5	22.5	76.0	101.7	86.7	91	83	20.0	225.4	372.2	697.6	22.5
2761	MANIFOLD BUSINESS FORMS	82.1	12.5	69.6	336.7	313.7	93	95	38.6	343.6	823.6	1 429.7	45.8
2771	GREETING CARD PUBLISHING	18.8	5.8	13.0	160.6	207.8	78	95	23.5	191.5	527.0	774.4	46.4
278	BLANKBOOKS AND BOOKBINDING	55.3	11.1	44.2	175.9	155.1	(NA)	(NA)	51.7	371.6	686.8	968.2	25.6
2782	BLANKBOOKS AND LOOSELEAF BINDERS	36.0	9.0	27.1	130.2	112.0	86	91	26.6	192.7	390.6	591.1	14.4
2789	BOOKBINDING AND RELATED WORK	19.3	2.2	17.1	45.7	43.1	96	94	25.1	178.9	296.2	377.2	11.2
279	PRINTING TRADE SERVICES	71.7	10.7	61.1	110.8	104.5	(NA)	(NA)	46.6	520.5	831.3	1 006.3	30.6
2791	TYPESETTING	36.7	5.9	30.8	42.5	38.5	97	89	26.0	269.8	426.0	482.8	14.2
2793	PHOTOENGRAVING	7.5	1.2	6.3	13.2	11.6	83	79	9.9	119.3	191.7	229.7	5.4
2794	ELECTROTYPE AND STEREOTYPING . . . . .	.1	(2)	.1	.5	.5	79	66	1.7	19.0	28.5	36.8	.5
2795	LITHOGRAPHIC PLATEMAKING SERVICES	27.4	3.5	23.9	54.5	53.8	87	89	8.9	112.4	185.1	257.0	10.5
28	CHEMICALS AND ALLIED PRODUCTS	8 198.9	1 246.3	6 952.6	14 791.3	13 447.5	(NA)	(NA)	836.5	8 730.5	32 413.9	57 349.6	2 728.4
281	INDUSTRIAL INORGANIC CHEMICALS	1 055.5	138.8	916.6	1 305.7	1 161.2	(NA)	(NA)	99.5	1 078.5	3 343.1	6 132.7	333.4
2812	ALKALIES AND CHLORINE	220.0	22.2	197.7	141.8	132.4	63	58	13.3	152.0	455.6	823.2	61.5
2813	INDUSTRIAL GASES	243.0	23.2	219.8	45.6	27.8	97	93	9.6	87.2	466.7	679.3	84.1
2816	INORGANIC PIGMENTS	124.3	11.7	112.5	251.5	240.7	88	84	12.8	134.6	382.6	796.9	38.9

See footnotes at end of table.

Table 4. Selected Statistics by Major Industry Group and Industry: 1977 and 1972-Con.

Code	Industry group and industry	1977									
		Companies (number)	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Value of ship- ments ¹ (million dollars)
			Total (number)	With 20 employees or more (number)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (million)	Wages (million dollars)		
2819	INDUSTRIAL INORGANIC CHEM., NEC. . .	345	565	289	78.8	1 334.2	47.3	96.7	720.1	4 363.9	8 695.7
282	PLASTICS MATERIALS, SYNTHETICS . . .	373	551	408	157.2	2 470.7	111.3	221.7	1 558.0	7 842.9	20 064.1
2821	PLASTICS MATERIALS AND RESINS. . . .	221	397	310	57.2	985.6	36.7	76.6	575.7	4 142.7	10 818.2
2822	SYNTHETIC RUBBER	56	63	30	10.0	185.2	7.1	14.2	125.7	568.6	1 863.3
2823	CELLULOSIC MANMADE FIBERS.	20	25	10	16.0	213.7	12.6	25.2	151.8	327.2	1 002.8
2824	ORGANIC FIBERS, NONCELLULOSIC. . . .	37	66	58	74.0	1 086.1	54.8	105.8	704.8	2 804.4	6 379.7
283	DRUGS.	1 020	1 243	482	156.4	2 459.6	80.3	157.5	997.2	9 939.9	14 247.8
2831	BIOLOGICAL PRODUCTS.	250	310	113	15.7	210.2	8.8	17.3	90.5	563.4	898.5
2833	MEDICINALS AND BOTANICALS.	153	177	76	14.4	219.9	8.4	17.1	127.2	1 162.2	1 889.9
2834	PHARMACEUTICAL PREPARATIONS.	655	756	293	126.4	2 029.5	63.1	123.1	779.4	8 214.4	11 459.4
284	SOAPS, CLEANERS, TOILET GOODS. . . .	2 252	2 528	739	111.6	1 526.1	71.1	138.9	822.8	9 407.2	16 330.7
2841	SOAP AND OTHER DETERGENTS.	554	638	225	32.1	521.6	20.5	41.0	308.1	2 867.5	5 671.4
2842	POLISHES AND SANITATION GOODS. . . .	946	1 022	238	22.1	274.7	14.1	27.2	148.5	1 667.2	3 157.3
2843	SURFACE ACTIVE AGENTS.	148	175	84	6.6	101.9	3.7	7.7	47.3	345.7	944.8
2844	TOILET PREPARATIONS.	644	693	192	50.9	627.9	32.8	62.9	318.9	4 526.7	6 557.2
2851	PAINTS AND ALLIED PRODUCTS	1 288	1 579	653	61.4	882.6	33.0	66.2	394.1	2 821.3	6 629.7
286	INDUSTRIAL ORGANIC CHEMICALS	574	879	510	152.8	2 794.2	97.8	200.1	1 625.3	12 875.1	30 261.1
2861	GUM AND WOOD CHEMICALS	100	119	37	4.8	54.0	3.8	7.8	38.9	185.0	391.3
2865	CYCLOC CRUDS AND INTERMEDIATES. . . .	135	191	127	35.7	631.5	23.4	46.6	369.8	2 214.4	5 637.0
2869	INDUSTRIAL ORGANIC CHEMICALS, NEC. .	384	569	346	112.3	2 108.7	70.7	145.7	1 216.5	10 475.7	24 232.8
287	AGRICULTURAL CHEMICALS	885	1 325	482	53.9	784.0	35.3	72.8	454.8	3 807.9	9 932.2
2873	NITROGENOUS FERTILIZERS.	110	152	88	12.1	207.9	7.9	17.1	128.4	1 202.0	2 603.4
2874	PHOSPHATIC FERTILIZERS	45	91	69	14.4	212.8	10.1	21.7	139.2	817.7	2 681.7
2875	FERTILIZERS, MIXING ONLY	457	673	204	12.4	139.1	8.1	16.0	68.9	488.9	1 866.6
2879	AGRICULTURAL CHEMICALS, NEC.	338	409	121	15.0	224.1	9.3	17.9	118.2	1 299.3	2 780.4
289	MISCELLANEOUS CHEMICAL PRODUCTS. . .	2 146	2 786	838	76.9	1 075.0	47.1	94.2	560.9	3 539.0	7 843.2
2891	ADHESIVES AND SEALANTS	405	573	213	16.7	230.7	10.2	20.6	113.5	748.7	1 813.1
2892	EXPLOSIVES	63	97	53	12.3	173.2	8.4	16.1	101.4	410.7	666.3
2893	PRINTING INK	205	446	157	10.1	145.1	5.8	11.4	71.6	367.8	944.9
2895	CARBON BLACK	8	31	31	2.5	42.5	2.0	4.6	32.5	170.2	468.4
2899	CHEMICAL PREPARATIONS, NEC	1 479	1 639	384	35.3	483.4	20.7	41.5	242.0	1 841.7	3 950.6
29	PETROLEUM AND COAL PRODUCTS. . . .	1 361	2 206	773	146.8	2 696.2	101.1	207.9	1 765.4	16 377.6	97 452.7
2911	PETROLEUM REFINING	192	349	279	102.5	2 055.3	70.8	144.4	1 366.4	14 423.9	91 688.8
295	PAVING AND ROOFING MATERIALS	729	1 297	328	32.3	461.3	23.9	51.0	319.4	1 272.0	3 655.9
2951	PAVING MIXTURES AND BLOCKS	590	1 022	164	12.8	189.6	9.6	20.1	133.6	507.8	1 578.3
2952	ASPHALT FELTS AND COATINGS	146	275	164	19.5	271.7	14.3	31.0	185.9	764.2	2 077.6
299	MISC. PETROLEUM, COAL PRODUCTS . . .	472	560	166	11.9	179.6	6.4	12.5	79.6	681.7	2 108.0
2992	LUBRICATING OILS AND GREASES	417	490	143	10.3	157.1	5.4	10.4	65.4	524.8	1 644.7
2999	PETROLEUM AND COAL PRODUCTS, NEC . .	60	70	23	1.6	22.5	1.1	2.1	14.2	157.0	463.3
30	RUBBER, MISC. PLASTICS PROD.	10 047	11 943	5 294	721.3	8 536.0	563.7	1 110.6	5 841.6	19 740.0	39 552.8
3011	TIRES AND INNER TUBES.	121	200	126	114.0	1 832.4	88.3	176.4	1 366.0	4 347.3	8 971.0
3021	RUBBER AND PLASTICS FOOTWEAR	67	84	50	19.8	159.1	16.4	30.0	115.9	272.3	517.0
3031	RECLAIMED RUBBER	21	21	9	.9	11.5	.7	1.5	8.4	24.8	41.6
3041	RUBBER, PLASTICS HOSE AND BELTING. .	101	146	103	34.4	457.4	23.4	45.3	274.9	973.5	1 765.7
3069	FABRICATED RUBBER PRODUCTS, NEC. . .	1 127	1 280	621	98.5	1 164.0	77.1	153.3	795.4	2 351.9	4 565.0
3079	MISCELLANEOUS PLASTICS PRODUCTS. . .	8 748	10 212	4 385	453.7	4 911.7	358.0	704.1	3 281.0	11 770.1	23 692.6
31	LEATHER AND LEATHER PRODUCTS	2 654	3 075	1 486	242.5	1 859.7	211.5	381.9	1 408.1	3 718.8	7 607.4
3111	LEATHER TANNING AND FINISHING. . . .	428	465	191	23.0	254.8	19.6	38.2	192.2	535.1	1 456.1
3131	BOOT, SHOE CUT STOCK AND FINDINGS. .	174	190	96	8.5	65.3	7.4	13.0	48.8	109.4	270.6
314	FOOTWEAR, EXCEPT RUBBER.	541	811	603	145.5	1 031.5	129.2	231.3	822.4	2 069.5	3 891.7
3142	HOUSE SLIPPERS	65	78	55	8.1	54.5	7.0	11.7	39.6	108.8	201.2
3143	MEN'S FOOTWEAR, EXCEPT ATHLETIC. .	115	213	180	55.0	417.0	49.2	90.1	332.2	871.9	1 734.5
3144	WOMEN'S FOOTWEAR, EXCEPT ATHLETIC.	243	328	241	57.6	388.6	51.3	91.3	315.6	755.0	1 361.2
3149	FOOTWEAR, EXCEPT RUBBER, NEC . . .	159	192	127	24.8	171.4	21.8	38.2	135.1	333.7	594.8
3151	LEATHER GLOVES AND MITTENS	84	101	66	5.5	33.9	4.7	8.2	25.5	67.6	178.0
3161	LUGGAGE.	286	298	130	19.2	164.1	15.8	29.0	105.5	328.3	654.9
317	WOMEN'S HANDBAGS AND PURSES. . . .	654	678	283	32.1	242.2	27.8	49.9	170.0	472.2	872.0
3171	WOMEN'S HANDBAGS AND PURSES. . . .	404	418	186	20.3	144.0	18.2	32.8	109.1	266.5	505.2
3172	PERSONAL LEATHER GOODS, NEC.	253	260	97	11.9	98.2	9.6	17.2	60.9	205.8	366.8
3199	LEATHER GOODS, NEC	512	532	117	8.6	67.9	7.0	12.4	43.7	136.7	284.2
32	STONE, CLAY, GLASS PRODUCTS.	14 495	17 744	5 201	613.7	7 943.1	484.4	960.7	5 766.6	19 129.6	35 476.6
3211	FLAT GLASS	43	62	32	21.9	401.0	18.5	39.9	328.2	931.0	1 576.6
322	GLASS, PRESSED OR BLOWN.	353	508	249	117.0	1 548.2	101.1	194.5	1 268.9	3 592.0	5 784.2
3221	GLASS CONTAINERS	31	126	124	70.8	975.4	62.5	120.1	823.0	2 138.9	3 664.2
3229	PRESSED AND BLOWN GLASS, NEC	325	382	125	46.2	572.8	38.6	74.4	445.9	1 453.1	2 120.1
3231	PRODUCTS OF PURCHASED GLASS.	1 000	1 101	325	36.2	429.2	28.8	56.7	305.9	960.2	1 842.4
3241	CEMENT, HYDRAULIC.	87	201	160	27.8	485.1	22.2	44.4	380.0	1 671.5	3 042.3
325	STRUCTURAL CLAY PRODUCTS	504	711	471	45.0	486.4	36.6	73.3	360.3	1 057.8	1 852.0

See footnotes at end of table.

Table 4. Selected Statistics by Major Industry Group and Industry: 1977 and 1972—Con.

Code	Industry group and industry	1977--Continued						1972					
		New capital expenditures ⁴			Inventories		Ratios		All employees		Value added by manu- facture (million dollars)	Value of ship- ments ¹ (million dollars)	New capital expend- itures (million dollars)
		Total (million dollars)	Struc- tures and additions (million dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Spe- cial- iza- tion (per- cent)	Cov- er- age (per- cent)	Num- ber (1,000)	Payroll (million dollars)			
2819	INDUSTRIAL INORGANIC CHEM., NEC. . .	468.2	81.7	386.6	866.9	760.3	³ 87	⁵ 77	63.8	704.7	2 038.2	3 833.3	149.0
282	PLASTICS MATERIALS, SYNTHETICS . . .	1 316.1	151.9	1 164.3	2 020.5	1 854.1	(NA)	(NA)	161.9	1 666.3	4 935.4	9 796.0	693.9
2821	PLASTICS MATERIALS AND RESINS. . . .	895.2	101.2	794.0	1 093.6	982.3	85	74	54.8	632.8	2 160.5	4 478.2	253.2
2822	SYNTHETIC RUBBER	53.2	3.9	49.3	154.3	148.9	91	71	11.8	138.8	491.7	1 089.4	35.5
2823	CELLULOSIC MANMADE FIBERS.	29.3	1.0	28.3	110.8	107.9	(D)	(D)	17.1	135.2	243.5	589.5	32.2
2824	ORGANIC FIBERS, NONCELLULOSIC. . . .	338.5	45.8	292.7	661.8	614.9	84	97	78.2	759.5	2 039.8	3 638.9	372.2
283	DRUGS	578.5	154.8	423.7	2 446.5	2 231.6	(NA)	(NA)	129.9	1 413.3	6 130.9	8 018.5	245.3
2831	BIOLOGICAL PRODUCTS.	35.4	11.3	24.2	246.9	222.3	93	73	10.1	102.9	231.4	360.0	27.2
2833	MEDICINALS AND BOTANICALS.	123.8	19.8	104.0	307.0	297.9	82	68	7.8	80.8	260.0	509.0	51.5
2834	PHARMACEUTICAL PREPARATIONS.	419.3	123.8	295.5	1 892.6	1 711.5	86	97	112.0	1 229.7	5 639.5	7 149.5	166.7
284	SOAPS, CLEANERS, TOILET GOODS. . . .	334.0	65.8	268.2	1 794.9	1 699.8	(NA)	(NA)	111.6	1 058.2	6 200.6	9 777.6	236.1
2841	SOAP AND OTHER DETERGENTS.	135.5	15.9	119.6	643.4	616.7	84	89	31.5	341.6	2 038.8	3 394.4	90.7
2842	POLISHES AND SANITATION GOODS. . . .	51.8	12.7	39.2	274.9	264.3	76	79	25.1	216.9	1 118.1	1 867.6	54.3
2843	SURFACE ACTIVE AGENTS.	41.1	8.2	32.8	116.3	106.9	81	55	6.9	71.5	209.5	462.6	19.7
2844	TOILET PREPARATIONS.	105.6	29.0	76.6	760.3	712.0	95	87	48.2	428.2	2 834.1	4 053.0	71.4
2851	PAINTS AND ALLIED PRODUCTS	167.4	52.5	114.9	937.6	864.2	96	97	65.9	647.2	1 791.7	3 821.8	81.5
286	INDUSTRIAL ORGANIC CHEMICALS	3 352.5	511.1	2 841.5	3 852.8	3 439.3	(NA)	(NA)	136.6	1 614.3	6 073.1	11 605.4	831.6
2861	GUM AND WOOD CHEMICALS	27.0	10.8	16.2	65.7	63.6	76	67	5.9	47.6	155.4	332.3	11.1
2865	CYCLIC CRUDES AND INTERMEDIATES. . .	443.1	52.6	390.5	844.4	784.2	68	67	28.2	318.2	929.7	2 049.6	158.8
2869	INDUSTRIAL ORGANIC CHEMICALS, NEC. .	2 882.6	447.7	2 434.9	2 942.7	2 591.5	69	84	102.4	1 248.6	4 988.0	9 223.5	661.7
287	AGRICULTURAL CHEMICALS	1 107.2	99.0	1 008.2	1 564.7	1 394.3	(NA)	(NA)	47.9	438.4	1 736.5	3 929.1	155.8
2873	NITROGENOUS FERTILIZERS.	734.4	34.7	699.6	378.0	296.9	84	72	9.4	104.3	447.6	799.4	33.2
2874	PHOSPHATIC FERTILIZERS	111.8	13.8	97.9	419.7	353.9	93	91	14.9	135.1	426.4	1 178.9	65.8
2875	FERTILIZERS, MIXING ONLY	41.9	9.3	32.6	306.5	303.3	95	98	11.4	82.5	263.6	800.0	17.2
2879	AGRICULTURAL CHEMICALS, NEC.	219.2	41.1	178.0	460.6	440.2	83	77	12.2	116.5	598.9	1 150.8	39.5
289	MISCELLANEOUS CHEMICAL PRODUCTS. .	287.4	72.3	215.2	868.1	802.8	(NA)	(NA)	83.1	814.3	2 202.6	4 268.4	150.8
2891	ADHESIVES AND SEALANTS	39.0	9.4	29.6	202.5	187.3	89	81	14.9	148.2	426.6	928.0	24.9
2892	EXPLOSIVES	26.1	7.3	18.8	59.8	54.8	86	95	18.6	178.9	281.7	402.7	30.1
2893	PRINTING INK	17.0	4.3	12.8	116.7	101.7	97	97	9.6	99.3	232.0	508.4	12.6
2895	CARBON BLACK	22.7	1.5	21.2	32.7	27.3	⁹⁵ 95	⁹⁵ 95	2.9	31.9	137.6	227.0	11.8
2899	CHEMICAL PREPARATIONS, NEC	182.6	49.8	132.9	456.5	431.7	87	77	37.1	356.0	1 124.7	2 202.3	71.3
29	PETROLEUM AND COAL PRODUCTS. . . .	2 261.3	617.8	1 643.5	5 656.3	4 912.9	(NA)	(NA)	139.5	1 637.5	5 793.1	28 694.7	1 154.2
2911	PETROLEUM REFINING	2 108.6	589.2	1 519.5	5 196.2	4 471.6	99	97	100.8	1 247.1	4 594.7	25 921.1	1 061.6
295	PAVING AND ROOFING MATERIALS	112.5	21.3	91.2	220.0	196.1	(NA)	(NA)	29.5	296.5	846.4	1 932.9	75.9
2951	PAVING MIXTURES AND BLOCKS	57.3	8.4	48.9	62.8	53.5	95	93	13.9	147.7	403.1	922.5	56.3
2952	ASPHALT FELTS AND COATINGS	55.2	13.0	42.2	157.2	142.6	91	97	15.6	148.7	443.3	1 010.4	19.6
299	MISC. PETROLEUM, COAL PRODUCTS . . .	40.1	7.2	32.9	240.1	245.2	(NA)	(NA)	9.2	93.9	352.1	840.7	16.7
2992	LUBRICATING OILS AND GREASES	25.6	5.7	19.9	180.8	192.9	94	44	8.1	83.3	295.8	703.1	13.7
2999	PETROLEUM AND COAL PRODUCTS, NEC . .	14.5	1.5	13.0	59.3	52.3	97	87	1.1	10.6	56.3	137.6	3.0
30	RUBBER, MISC. PLASTICS PROD.	1 645.3	306.4	1 338.9	4 952.7	4 441.4	(NA)	(NA)	617.7	5 165.2	11 653.3	20 923.7	1 059.6
3011	TIRES AND INNER TUBES.	289.0	38.4	250.6	1 172.1	1 015.0	96	99	107.5	1 214.1	3 070.8	5 747.1	267.1
3021	RUBBER AND PLASTICS FOOTWEAR	11.3	.9	10.4	140.7	129.0	93	99	31.6	182.6	370.3	600.0	17.7
3031	RECLAIMED RUBBER . . . . .	.5	(2)	.5	3.7	3.7	100	62	.9	9.1	15.6	29.7	.7
3041	RUBBER, PLASTICS HOSE AND BELTING. .	55.3	15.3	40.1	275.4	267.6	88	92	31.9	309.0	618.7	1 020.1	31.6
3069	FABRICATED RUBBER PRODUCTS, NEC. . .	135.0	28.2	106.9	510.5	476.6	90	90	99.0	808.8	1 573.1	2 830.9	88.5
3079	MISCELLANEOUS PLASTICS PRODUCTS. . .	1 154.2	223.7	930.5	2 850.3	2 549.6	94	91	346.9	2 641.6	6 004.7	10 695.9	654.0
31	LEATHER AND LEATHER PRODUCTS	96.2	21.6	74.6	1 098.9	1 033.0	(NA)	(NA)	273.4	1 589.3	2 917.2	5 769.5	74.5
3111	LEATHER TANNING AND FINISHING. . . .	30.7	6.8	23.9	187.6	176.1	99	99	25.7	200.0	368.3	1 059.5	16.3
3131	BOOT, SHOE CUT STOCK AND FINDINGS. .	3.0	.8	2.2	31.2	33.0	90	92	8.7	50.1	86.2	206.5	2.9
314	FOOTWEAR, EXCEPT RUBBER.	37.1	9.0	28.1	558.0	518.8	(NA)	(NA)	176.2	972.7	1 796.1	3 272.2	37.1
3142	HOUSE SLIPPERS	2.3	.7	1.6	29.7	28.9	94	96	8.5	48.1	85.7	151.4	1.6
3143	MEN'S FOOTWEAR, EXCEPT ATHLETIC. .	14.5	3.4	11.0	272.2	245.6	92	96	61.5	358.1	674.4	1 288.9	14.3
3144	WOMEN'S FOOTWEAR, EXCEPT ATHLETIC.	9.7	2.1	7.6	147.4	148.3	97	92	77.4	408.4	763.6	1 346.1	14.8
3149	FOOTWEAR, EXCEPT RUBBER, NEC	10.6	2.8	7.8	108.7	96.0	84	83	28.7	158.1	272.5	485.8	6.4
3151	LEATHER GLOVES AND MITTENS	1.9	.3	1.6	33.7	30.9	83	85	4.9	22.1	43.0	98.2	.5
3161	LUGGAGE.	8.1	1.0	7.1	113.5	114.8	94	98	17.1	106.8	194.1	364.5	8.9
317	WOMEN'S HANDBAGS AND PURSES. . . .	11.4	2.4	9.0	124.5	116.2	(NA)	(NA)	33.6	195.1	345.1	607.2	6.5
3171	WOMEN'S HANDBAGS AND PURSES. . . .	6.6	1.7	4.9	61.9	56.1	97	97	22.2	121.7	201.5	365.0	3.7
3172	PERSONAL LEATHER GOODS, NEC.	4.8	.7	4.1	62.5	60.2	96	91	11.5	73.4	143.7	242.2	2.8
3199	LEATHER GOODS, NEC	4.1	1.4	2.7	50.6	43.2	94	95	7.2	42.5	84.3	161.3	2.2
32	STONE, CLAY, GLASS PRODUCTS.	1 881.4	337.2	1 544.2	4 279.3	3 995.3	(NA)	(NA)	623.2	5 546.9	12 586.5	21 537.5	1 195.5
3211	FLAT GLASS	81.1	11.8	69.3	211.4	191.9	⁹⁰ 90	(D)	20.9	241.9	662.1	937.1	95.0
322	GLASS, PRESSED OR BLOWN.	364.5	59.1	305.4	759.4	760.9	(NA)	(NA)	118.8	1 057.5	2 341.1	3 393.8	176.7
3221	GLASS CONTAINERS	220.9	34.3	186.7	408.7	429.6	99	99	72.9	659.4	1 399.7	2 126.5	121.1
3229	PRESSED AND BLOWN GLASS, NEC	143.6	24.9	118.7	350.7	331.2	97	96	45.9	398.1	941.4	1 267.3	55.6
3231	PRODUCTS OF PURCHASED GLASS.	73.4	23.0	50.4	285.6	261.5	⁹⁵ 95	(D)	33.7	296.1	668.9	1 330.1	34.5
3241	CEMENT, HYDRAULIC.	296.6	41.7	254.9	484.8	463.2	99	99	30.0	349.2	1 153.5	1 791.2	179.5
325	STRUCTURAL CLAY PRODUCTS	82.3	16.7	65.6	299.0	304.5	(NA)	(NA)	51.8	391.4	770.6	1 205.3	64.0

See footnotes at end of table.

Table 4. Selected Statistics by Major Industry Group and Industry: 1977 and 1972—Con.

Code	Industry group and industry	1977									Value added by manu- facture (million dollars)	Value of ship- ments ¹ (million dollars)
		Companies (number)	All establishments		All employees		Production workers					
			Total (number)	With 20 employees or more (number)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (million)	Wages (million dollars)			
3251	BRICK AND STRUCTURAL CLAY TILE	250	352	262	20.5	197.3	17.0	34.0	149.2	467.9	777.7	
3253	CERAMIC WALL AND FLOOR TILE.	62	79	48	7.8	78.3	6.3	12.8	56.4	155.4	252.5	
3255	CLAY REFRACTORIES.	98	167	104	11.3	146.8	8.8	17.6	106.5	308.4	607.2	
3259	STRUCTURAL CLAY PRODUCTS, NEC.	94	113	57	5.5	64.0	4.5	8.9	48.2	126.1	214.6	
326	POTTERY AND RELATED PRODUCTS	885	934	241	43.2	459.6	35.6	67.8	341.9	893.6	1 260.9	
3261	VITREOUS PLUMBING FIXTURES	54	70	38	9.2	117.2	7.8	15.6	96.9	277.3	411.4	
3262	VITREOUS CHINA FOOD UTENSILS	26	28	14	7.3	72.3	6.0	11.1	53.6	140.0	170.7	
3263	FINE EARTHENWARE FOOD UTENSILS	22	23	17	4.7	38.4	3.5	6.4	27.1	61.2	81.3	
3264	PORCELAIN ELECTRICAL SUPPLIES.	77	86	56	11.4	144.4	9.1	17.6	98.0	253.9	367.5	
3269	POTTERY PRODUCTS, NEC.	713	727	116	10.6	87.4	9.2	17.1	66.2	161.2	230.0	
327	CONCRETE, GYPSUM, PLASTER PRODS.	8 899	10 844	2 711	183.7	2 366.8	134.4	272.6	1 558.6	5 390.8	11 804.8	
3271	CONCRETE BLOCK AND BRICK	1 162	1 273	348	18.7	237.1	11.8	24.1	126.6	520.3	1 143.8	
3272	CONCRETE PRODUCTS, NEC.	3 475	3 916	862	61.7	734.9	48.1	96.0	494.5	1 529.3	2 736.2	
3273	READY-MIXED CONCRETE	4 317	5 433	1 357	87.9	1 175.8	62.0	125.3	766.6	2 693.2	6 440.6	
3274	LIME	64	94	63	5.9	75.4	4.8	9.8	59.4	218.2	484.2	
3275	GYPSUM PRODUCTS.	58	128	81	9.5	143.6	7.6	17.3	111.5	429.6	1 000.0	
3281	CUT STONE AND STONE PRODUCTS	963	993	164	12.7	131.5	10.6	21.4	98.8	238.2	393.0	
329	MISC. NONMETALLIC MINERAL PRODS.	1 960	2 390	848	126.2	1 635.2	96.6	190.0	1 123.9	4 394.5	7 920.2	
3291	ABRASIVE PRODUCTS.	353	410	178	28.3	392.3	20.1	38.5	241.2	1 097.7	1 955.8	
3292	ASBESTOS PRODUCTS.	86	123	76	13.9	179.9	11.0	22.6	137.4	439.3	882.1	
3293	GASKETS, PACKING, SEALING DEVICES.	384	433	217	33.0	371.3	25.0	47.5	237.3	748.3	1 267.1	
3295	MINERALS, GROUND OR TREATED.	318	466	151	11.5	156.3	8.9	18.1	111.8	479.4	957.3	
3296	MINERAL WOOL	95	153	90	22.6	313.8	18.6	38.3	244.5	1 053.7	1 790.5	
3297	NONCLAY REFRACTORIES	74	109	66	9.1	134.3	6.8	13.5	92.5	352.1	680.2	
3299	NONMETALLIC MINERAL PRODUCTS, NEC.	661	696	70	7.7	87.2	6.2	11.4	59.1	224.1	387.3	
33	PRIMARY METAL INDUSTRIES	5 929	7 375	3 980	1 113.6	18 745.0	885.3	1 744.0	14 065.2	37 568.2	103 179.4	
331	BLAST FURNACE, BASIC STEEL PROD.	887	1 216	740	529.7	10 085.5	417.9	804.5	7 631.3	18 318.4	50 582.1	
3312	BLAST FURNACES AND STEEL MILLS	395	504	250	441.9	8 725.7	350.2	668.7	6 653.0	15 331.9	41 998.2	
3313	ELECTROMETALLURGICAL PRODUCTS.	28	42	31	8.9	139.2	7.0	14.3	103.9	274.6	930.6	
3315	STEEL WIRE AND RELATED PRODUCTS.	262	335	223	31.7	436.6	24.3	49.0	304.9	924.4	2 258.6	
3316	COLD FINISHING OF STEEL SHAPES	118	155	94	19.4	334.6	14.6	28.7	238.8	799.6	2 713.2	
3317	STEEL PIPE AND TUBES	130	180	142	27.8	449.4	21.8	43.7	330.6	987.9	2 681.4	
332	IRON AND STEEL FOUNDRIES	1 251	1 465	1 033	222.3	3 329.2	183.8	367.9	2 582.6	6 236.6	10 830.2	
3321	GRAY IRON FOUNDRIES.	865	984	683	138.8	2 146.0	116.8	236.1	1 703.2	4 070.7	7 388.7	
3322	MALLEABLE IRON FOUNDRIES	58	66	53	18.2	273.0	14.6	27.9	202.5	458.8	721.9	
3324	STEEL INVESTMENT FOUNDRIES	80	92	68	10.5	128.7	8.1	16.5	85.9	267.4	407.5	
3325	STEEL FOUNDRIES, NEC.	287	323	229	54.8	781.5	44.2	87.3	591.0	1 439.8	2 312.1	
333	PRIMARY NONFERROUS METALS.	103	160	99	57.3	1 032.1	44.9	89.1	768.4	3 618.6	10 660.2	
3331	PRIMARY COPPER	8	27	27	13.1	217.3	10.6	20.6	167.5	904.3	3 181.1	
3332	PRIMARY LEAD	4	7	7	2.5	40.5	2.0	4.1	30.2	189.5	699.6	
3333	PRIMARY ZINC	8	9	7	4.6	70.5	3.5	6.9	49.3	114.3	430.7	
3334	PRIMARY ALUMINUM	12	32	32	28.6	555.0	22.8	45.5	426.3	1 980.9	4 647.8	
3339	PRIMARY NONFERROUS METALS, NEC.	81	85	26	8.6	148.8	6.0	12.1	95.1	429.5	963.9	
3341	SECONDARY NONFERROUS METALS.	393	460	200	18.9	269.8	14.0	28.4	169.7	769.3	3 558.0	
335	NONFERROUS ROLLING AND DRAWING	626	1 002	711	177.4	2 640.0	136.0	278.5	1 901.5	5 902.3	22 227.3	
3351	COPPER ROLLING AND DRAWING	102	140	99	31.3	455.5	24.2	50.5	338.7	973.7	4 013.8	
3353	ALUMINUM SHEET, PLATE, AND FOIL.	31	53	45	31.4	613.5	25.0	50.6	480.1	1 340.6	5 970.7	
3354	ALUMINUM EXTRUDED PRODUCTS	133	193	146	26.5	355.9	21.2	44.0	264.1	678.6	2 050.0	
3355	ALUMINUM ROLLING AND DRAWING, NEC.	18	22	15	4.7	78.1	3.6	6.9	56.5	222.8	1 001.0	
3356	NONFERROUS ROLLING & DRAWING, NEC.	153	173	86	17.2	260.2	12.2	24.7	158.7	569.0	22 596.5	
3357	NONFERROUS WIREDRAWING, INSULATING.	245	421	320	66.3	876.8	50.0	101.8	603.4	2 117.6	8 595.4	
336	NONFERROUS FOUNDRIES	1 806	1 892	805	82.1	1 043.8	68.6	134.1	782.6	1 959.6	3 826.1	
3361	ALUMINUM FOUNDRIES	994	1 038	461	52.2	691.4	44.2	86.3	531.0	1 262.7	2 459.1	
3362	BRASS, BRONZE, COPPER FOUNDRIES.	476	489	180	12.6	148.3	10.2	19.8	106.7	283.0	553.3	
3369	NONFERROUS FOUNDRIES, NEC.	359	365	164	17.3	204.1	14.2	28.0	144.9	413.9	813.7	
339	MISC. PRIMARY METAL PRODUCTS	1 102	1 180	392	26.0	344.5	20.2	41.5	229.2	763.3	1 495.5	
3398	METAL HEAT TREATING.	682	753	273	16.9	220.1	13.3	27.6	147.9	466.8	744.9	
3399	PRIMARY METAL PRODUCTS, NEC.	406	427	119	9.0	124.4	6.9	13.9	81.2	296.5	750.6	
34	FABRICATED METAL PRODUCTS.	29 966	33 712	12 739	1 555.7	21 035.9	1 191.6	2 373.8	14 428.8	45 511.5	90 023.5	
341	METAL CANS, SHIPPING CONTAINERS.	269	587	413	72.3	1 246.5	60.0	126.5	999.6	3 643.9	9 180.0	
3411	METAL CANS	153	403	300	59.8	1 066.3	50.2	106.4	870.8	3 254.3	8 242.8	
3412	METAL BARRELS, DRUMS, AND PAILS.	120	184	113	12.4	180.3	9.8	20.1	128.8	389.6	937.1	
342	CUTLERY, HANDTOOLS AND HARDWARE.	1 924	2 137	877	168.6	2 179.3	132.6	264.5	1 553.4	5 176.6	8 556.5	
3421	CUTLERY.	119	130	62	14.9	159.6	12.1	23.5	118.3	492.0	711.4	
3423	HAND AND EDGE TOOLS, NEC.	662	724	296	47.0	566.4	36.9	72.8	394.7	1 421.4	2 279.2	
3425	HANDSAWS AND SAW BLADES.	105	115	55	7.6	94.3	5.7	11.4	62.7	230.6	363.3	
3429	HARDWARE, NEC.	1 063	1 168	464	99.2	1 359.0	77.9	156.8	977.7	3 032.6	5 202.6	
343	PLUMBING, HEATING, EXCEPT ELEC.	960	1 015	341	53.2	636.8	40.6	80.4	422.8	1 573.6	3 087.6	
3431	METAL SANITARY WARE.	96	101	37	8.1	109.7	6.7	14.4	87.5	248.7	477.6	
3432	PLUMBING FITTINGS AND BRASS GOODS.	191	213	110	19.3	215.0	15.3	30.0	145.0	579.3	1 166.4	
3433	HEATING EQUIPMENT, EXC. ELECTRIC	678	701	194	25.8	312.2	18.7	36.0	190.3	745.6	1 443.6	
344	FABRICATED STRUC. METAL PRODS.	10 725	11 817	4 279	425.7	5 491.9	308.5	603.3	3 467.2	11 785.3	24 993.8	
3441	FABRICATED STRUCTURAL METAL.	2 319	2 462	1 074	99.3	1 313.6	72.8	144.2	836.9	2 559.8	5 505.2	
3442	METAL DOORS, SASH, AND TRIM.	1 498	1 672	644	65.8	671.3	50.1	97.0	425.0	1 418.3	3 135.6	
3443	FABRICATED PLATEWORK, BOILER SHOP.	1 683	1 864	944	123.5	1 777.8	87.7	171.6	1 125.8	4 075.3	7 432.4	
3444	SHEET METALWORK.	3 222	3 430	1 008	77.4	980.2	56.7	109.5	636.6	2 095.1	4 863.5	
3446	ARCHITECTURAL METALWORK.	1 477	1 511	225	20.8	247.7	15.1	29.4	152.3	505.5	947.1	
3448	PREFABRICATED METAL BUILDINGS.	414	466	199	22.7	289.7	15.9	31.6	174.9	694.5	1 779.2	

See footnotes at end of table.

Table 4. Selected Statistics by Major Industry Group and Industry: 1977 and 1972--Con.

Code	Industry group and industry	1977--Continued						1972						
		New capital expenditures ^a			Inventories		Ratios		All employees		Value added by manu- facture		New capital expend- itures	
		Total (million dollars)	Struc- tures and additions (million dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Spe- cial- iza- tion (per- cent)	Cov- er- age (per- cent)	Num- ber (1,000)	Payroll (million dollars)	Value added by manu- facture (million dollars)	Value of ship- ments ¹ (million dollars)	New capital expend- itures (million dollars)	
3251	BRICK AND STRUCTURAL CLAY TILE	49.6	10.2	39.5	93.2	98.3	99	99	24.1	168.4	336.4	513.0	38.6	
3253	CERAMIC WALL AND FLOOR TILE	6.6	.7	6.0	42.1	40.3	99	95	8.3	58.5	112.3	175.6	7.6	
3255	CLAY REFRACTORIES	20.0	4.4	15.6	126.4	131.4	89	95	11.2	100.5	202.1	336.0	10.8	
3259	STRUCTURAL CLAY PRODUCTS, NEC. . . .	6.1	1.4	4.6	37.2	34.5	94	92	8.2	64.0	119.8	180.7	7.0	
326	POTTERY AND RELATED PRODUCTS	45.2	11.5	33.7	182.0	169.0	(NA)	(NA)	44.9	335.3	600.6	834.8	23.1	
3261	VITREOUS PLUMBING FIXTURES	7.3	1.9	5.4	48.9	49.1	92	95	9.6	86.5	186.8	270.0	5.8	
3262	VITREOUS CHINA FOOD UTENSILS	5.4	1.6	3.8	30.0	26.2	80	97	5.9	41.2	67.4	81.9	1.8	
3263	FINE EARTHENWARE FOOD UTENSILS	1.7	.4	1.3	17.2	14.9	85	76	6.8	41.4	56.2	74.3	3.1	
3264	PORCELAIN ELECTRICAL SUPPLIES	20.9	5.3	15.6	59.3	54.3	86	82	13.4	114.0	190.4	274.6	7.2	
3269	POTTERY PRODUCTS, NEC.	9.8	2.4	7.5	26.7	24.6	95	85	9.1	52.2	99.9	134.0	5.2	
327	CONCRETE, GYPSUM, PLASTER PRODS. . . .	604.8	105.8	499.0	864.8	774.7	(NA)	(NA)	193.1	1 741.0	3 839.7	7 746.4	453.1	
3271	CONCRETE BLOCK AND BRICK	55.6	9.8	45.9	124.0	118.4	93	85	22.8	196.0	438.5	855.7	46.2	
3272	CONCRETE PRODUCTS, NEC.	134.4	30.2	104.2	389.7	357.0	96	95	67.7	570.2	1 190.1	1 961.4	96.2	
3273	READY-MIXED CONCRETE	353.1	54.1	299.0	231.5	193.7	93	98	85.7	809.3	1 756.7	4 050.9	247.8	
3274	LIME	29.7	6.9	22.9	47.2	39.0	92	92	5.7	50.0	129.3	238.1	39.4	
3275	GYPSUM PRODUCTS.	31.9	4.9	27.0	72.4	66.6	96	98	11.2	115.5	325.1	640.3	23.3	
3281	CUT STONE AND STONE PRODUCTS	10.4	2.1	8.3	53.8	50.0	96	95	15.0	109.2	191.4	304.5	12.6	
329	MISC. NONMETALLIC MINERAL PRODS. . . .	323.1	65.5	257.6	1 138.5	1 019.8	(NA)	(NA)	115.1	1 025.4	2 358.8	3 994.4	157.0	
3291	ABRASIVE PRODUCTS.	48.7	12.0	36.7	317.7	247.8	90	97	24.5	229.4	529.6	888.1	17.2	
3292	ASBESTOS PRODUCTS.	26.0	5.4	20.6	168.0	161.3	92	81	21.0	191.0	426.1	763.4	20.4	
3293	GASKETS, PACKING, SEALING DEVICES. . . .	46.5	8.0	38.5	208.6	195.5	93	89	27.7	220.4	428.5	665.4	24.9	
3295	MINERALS, GROUND OR TREATED.	50.2	9.7	40.5	116.3	116.4	96	90	9.5	87.9	237.2	412.0	30.0	
3296	MINERAL WOOL	85.9	12.2	73.7	121.5	116.5	93	96	18.0	172.3	441.5	755.4	50.1	
3297	NONCLAY REFRACTORIES	37.1	6.9	30.2	159.5	141.8	92	83	8.1	78.3	191.1	343.6	9.3	
3299	NONMETALLIC MINERAL PRODUCTS, NEC. . . .	28.7	11.2	17.4	46.9	40.5	93	89	6.3	46.0	104.7	166.5	5.0	
33	PRIMARY METAL INDUSTRIES	4 496.8	652.8	3 844.0	18 458.3	17 884.5	(NA)	(NA)	1 142.8	12 166.5	23 258.1	58 429.7	2 160.6	
331	BLAST FURNACE, BASIC STEEL PROD.	2 442.7	269.1	2 173.6	10 306.4	10 327.8	(NA)	(NA)	552.9	6 388.6	12 116.1	28 652.3	1 058.8	
3312	BLAST FURNACES AND STEEL MILLS	2 143.0	225.5	1 917.6	8 471.6	8 620.6	(NA)	(NA)	469.1	5 537.8	10 304.7	23 946.7	961.2	
3313	ELECTROMETALLURGICAL PRODUCTS	53.2	4.2	49.1	403.8	367.3	(D)	90	9.5	94.1	217.2	550.1	26.3	
3315	STEEL WIRE AND RELATED PRODUCTS	79.4	14.3	65.1	422.8	409.7	95	47	30.6	287.9	583.5	1 227.7	26.6	
3316	COLD FINISHING OF STEEL SHAPES	49.6	5.6	43.9	436.6	383.3	95	25	20.1	223.3	504.6	1 635.7	20.6	
3317	STEEL PIPE AND TUBES	117.5	19.6	97.9	571.6	546.9	95	44	23.6	245.5	506.1	1 292.1	24.1	
332	IRON AND STEEL FOUNDRIES	658.8	129.4	529.4	1 104.8	1 027.1	(NA)	(NA)	218.8	2 155.3	3 481.3	5 713.9	279.9	
3321	GRAY IRON FOUNDRIES	503.1	102.3	400.8	654.4	596.2	96	88	138.4	1 387.4	2 257.0	3 876.5	202.5	
3322	MALLEABLE IRON FOUNDRIES	28.9	6.5	22.4	43.6	41.1	86	93	22.5	234.5	342.6	507.9	34.9	
3324	STEEL INVESTMENT FOUNDRIES	10.9	1.6	9.3	65.6	57.0	93	86	11.2	93.2	175.6	262.2	11.1	
3325	STEEL FOUNDRIES, NEC.	115.9	19.0	96.9	341.3	332.8	87	91	46.7	440.2	706.0	1 067.4	31.5	
333	PRIMARY NONFERROUS METALS.	587.2	110.7	476.5	1 952.0	1 819.4	(NA)	(NA)	58.6	626.9	1 705.5	5 964.2	292.2	
3331	PRIMARY COPPER	(D)	(D)	(D)	756.6	700.0	(7)	(7)	17.2	173.2	487.8	2 771.1	119.7	
3332	PRIMARY LEAD	(D)	(D)	(D)	186.0	162.3	(7)	(7)	2.8	26.5	128.7	460.9	5.7	
3333	PRIMARY ZINC	39.8	5.3	34.6	154.1	176.6	83	67	6.3	59.3	121.6	376.4	9.8	
3334	PRIMARY ALUMINUM	158.7	22.2	136.5	646.8	590.1	95	70	25.6	296.2	816.0	1 959.8	136.5	
3339	PRIMARY NONFERROUS METALS, NEC.	97.1	7.4	89.7	208.5	190.5	90	44	6.7	71.7	151.5	395.9	20.6	
3341	SECONDARY NONFERROUS METALS.	114.3	36.7	77.6	485.2	459.5	97	26	17.8	170.1	410.9	2 097.2	34.8	
335	NONFERROUS ROLLING AND DRAWING	460.5	62.4	398.1	4 042.3	3 749.3	(NA)	(NA)	188.3	1 871.3	3 799.5	12 862.6	371.4	
3351	COPPER ROLLING AND DRAWING	64.4	7.3	57.1	472.1	496.1	85	92	37.8	383.7	800.3	3 098.8	65.3	
3353	ALUMINUM SHEET, PLATE, AND FOIL	157.7	19.0	138.7	1 625.2	1 325.2	92	99	31.3	370.7	692.3	2 685.2	90.3	
3354	ALUMINUM EXTRUDED PRODUCTS	48.2	8.6	39.6	337.2	312.8	88	92	27.7	239.2	427.6	1 078.3	32.6	
3355	ALUMINUM ROLLING AND DRAWING, NEC. . . .	16.1	2.2	13.9	169.5	183.6	91	65	4.6	48.0	57.3	343.4	9.2	
3356	NONFERROUS ROLLING & DRAWING, NEC. . . .	34.3	5.7	28.6	477.5	483.7	94	93	18.1	184.2	374.1	1 244.6	24.3	
3357	NONFERROUS WIREDRAWING, INSULATING. . .	139.8	19.6	120.2	960.7	948.0	94	93	68.8	645.6	1 448.0	4 412.3	149.7	
336	NONFERROUS FOUNDRIES	163.7	32.0	131.8	349.2	316.9	(NA)	(NA)	81.4	721.5	1 269.1	2 323.8	73.5	
3361	ALUMINUM FOUNDRIES	121.1	23.2	97.9	205.4	174.7	87	92	45.7	417.9	718.3	1 269.9	38.8	
3362	BRASS, BRONZE, COPPER FOUNDRIES.	17.9	3.7	14.2	59.2	55.6	85	74	15.4	129.6	236.9	465.3	17.4	
3369	NONFERROUS FOUNDRIES, NEC.	24.7	5.1	19.6	84.7	86.6	85	77	20.3	174.0	314.0	588.6	17.3	
339	MISC. PRIMARY METAL PRODUCTS	69.5	12.5	57.0	218.2	184.4	(NA)	(NA)	25.0	232.8	475.7	815.7	50.0	
3398	METAL HEAT TREATING.	42.2	9.2	33.0	69.0	48.5	(8)	(8)	17.2	157.3	310.6	467.4	23.1	
3399	PRIMARY METAL PRODUCTS, NEC.	27.3	3.3	24.0	149.2	135.9	94	70	7.9	75.5	165.0	348.3	26.9	
34	FABRICATED METAL PRODUCTS.	2 606.1	480.9	2 125.3	15 306.2	14 111.8	(NA)	(NA)	1 493.3	13 820.6	26 914.5	51 739.3	1 323.2	
341	METAL CANS, SHIPPING CONTAINERS.	208.7	25.7	183.0	1 168.0	1 020.9	(NA)	(NA)	78.6	839.6	2 004.6	4 972.1	146.5	
3411	METAL CANS	176.9	19.6	157.3	1 032.9	889.0	96	98	68.5	740.7	1 815.8	4 510.8	138.1	
3412	METAL BARRELS, DRUMS, AND PAILS.	31.8	6.1	25.7	135.0	132.0	94	90	10.2	98.9	188.8	461.3	8.4	
342	CUTLERY, HANDTOOLS AND HARDWARE. . . .	298.9	45.9	253.1	1 544.7	1 385.2	(NA)	(NA)	159.2	1 404.9	3 253.4	5 094.3	143.0	
3421	CUTLERY.	23.3	5.0	18.3	132.1	129.0	92	94	13.4	102.6	322.3	427.5	11.7	
3423	HAND AND EDGE TOOLS, NEC.	72.0	14.1	58.0	487.4	437.3	91	90	39.3	343.0	780.0	1 233.1	33.5	
3425	HANDSAWS AND SAW BLADES.	13.4	1.4	12.0	75.5	68.3	86	77	6.6	56.7	127.5	194.4	6.4	
3429	HARDWARE, NEC.	190.2	25.4	164.8	849.7	750.6	94	94	99.9	902.6	2 023.6	3 239.4	91.4	
343	PLUMBING, HEATING, EXCEPT ELEC.	74.1	14.8	59.2	567.9	525.8	(NA)	(NA)	60					

Table 4. Selected Statistics by Major Industry Group and Industry: 1977 and 1972-Con.

Code	Industry group and industry	1977									Value added by manu- facture (million dollars)	Value of ship- ments ¹ (million dollars)
		Companies (number)	All establishments		All employees		Production workers					
			Total (number)	With 20 employees or more (number)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (million)	Wages (million dollars)			
3449	MISCELLANEOUS METALWORK.	308	412	185	16.3	211.5	10.2	20.2	115.7	436.9	1 330.8	
345	SCREW MACHINE PROD., BOLTS, ETC. . .	2 431	2 627	1 102	104.7	1 414.0	81.6	168.2	983.2	2 864.2	5 091.2	
3451	SCREW MACHINE PRODUCTS	1 727	1 770	654	43.8	551.6	36.0	74.3	395.5	1 023.9	1 771.7	
3452	BOLTS, NUTS, RIVETS, AND WASHERS . .	723	857	448	60.9	862.4	45.6	93.9	587.6	1 840.3	3 319.5	
346	METAL FORGINGS AND STAMPINGS	3 389	3 715	1 875	288.0	4 511.3	236.1	479.6	3 418.9	8 913.4	18 264.2	
3462	IRON AND STEEL FORGINGS.	312	358	231	39.1	641.5	31.0	60.8	474.8	1 301.4	2 795.2	
3463	NONFERROUS FORGINGS.	43	47	31	5.4	93.7	4.2	8.2	64.8	240.7	456.7	
3465	AUTOMOTIVE STAMPINGS	495	591	432	132.4	2 446.0	112.5	236.8	1 956.6	4 654.5	9 739.2	
3466	CROWNS AND CLOSURES.	42	56	43	7.9	104.8	6.5	12.6	80.2	265.4	536.9	
3469	METAL STAMPINGS, NEC	2 544	2 663	1 138	103.2	1 225.4	82.0	161.2	842.5	2 451.5	4 735.7	
347	METAL SERVICES, NEC.	4 880	5 095	1 373	93.5	1 008.5	77.1	153.5	706.3	1 962.9	3 456.3	
3471	PLATING AND POLISHING.	3 344	3 447	904	61.2	634.8	51.2	101.3	446.1	1 181.8	1 848.5	
3479	METAL COATING AND ALLIED SERVICES. .	1 556	1 648	469	32.3	373.7	25.9	52.2	260.2	781.1	1 607.7	
348	ORDNANCE AND ACCESSORIES, NEC. . . .	306	346	151	70.2	991.7	46.9	91.7	559.2	1 736.8	2 641.4	
3482	SMALL ARMS AMMUNITION.	59	65	16	10.3	138.1	7.7	15.4	95.3	247.5	436.2	
3483	AMMUNITION, EXC. SMALL ARMS, NEC . .	68	80	48	18.9	248.1	12.4	23.5	133.2	448.7	716.5	
3484	SMALL ARMS	105	112	46	17.5	237.8	13.1	27.1	157.3	481.5	754.9	
3489	ORDNANCE AND ACCESSORIES NEC	89	89	41	23.6	367.7	13.7	25.8	173.3	559.2	733.8	
349	MISC. FABRICATED METAL PRODUCTS. . .	5 780	6 373	2 328	279.4	3 555.8	208.2	406.1	2 318.1	7 854.9	14 752.6	
3493	STEEL SPRINGS, EXCEPT WIRE	116	131	59	8.2	119.8	6.6	13.3	88.0	249.9	500.5	
3494	VALVES AND PIPE FITTINGS	741	902	532	108.7	1 467.3	76.0	149.6	909.8	3 385.9	5 662.3	
3495	WIRE SPRINGS	254	332	226	21.7	253.5	18.0	35.4	187.8	497.7	957.7	
3496	MISC. FABRICATED WIRE PRODUCTS . . .	1 048	1 114	387	32.4	354.5	25.5	49.4	232.2	721.7	1 435.0	
3497	METAL FOIL AND LEAF.	63	77	52	9.4	125.8	6.6	13.0	87.1	298.0	895.1	
3498	FABRICATED PIPE AND FITTINGS	513	579	278	28.2	390.0	21.4	40.6	265.4	887.2	1 872.7	
3499	FABRICATED METAL PRODUCTS, NEC . . .	3 142	3 238	794	70.8	844.7	54.1	104.8	547.8	1 814.5	3 429.2	
35	MACHINERY, EXCEPT ELECTRICAL . . .	44 974	48 200	12 446	2 083.3	30 557.5	1 413.8	2 803.0	18 298.4	67 222.5	122 187.7	
351	ENGINES AND TURBINES	251	315	168	129.6	2 237.6	90.1	181.2	1 404.7	4 959.6	10 426.2	
3511	TURBINES, TURBINE GENERATOR SETS . .	68	83	37	40.8	709.1	24.8	51.1	368.5	1 553.1	2 729.7	
3519	INTERNAL COMBUSTION ENGINES, NEC . .	187	232	131	88.8	1 528.6	65.3	130.1	1 036.2	3 406.5	7 696.5	
352	FARM AND GARDEN MACHINERY.	1 991	2 159	756	150.9	2 196.5	110.8	210.4	1 456.4	5 490.2	11 857.0	
3523	FARM MACHINERY AND EQUIPMENT	1 868	2 004	664	131.3	1 971.9	96.2	182.7	1 313.3	4 854.4	10 281.7	
3524	LAWN AND GARDEN EQUIPMENT.	137	155	92	19.6	224.6	14.7	27.7	143.1	635.8	1 575.3	
353	CONSTRUCTION, RELATED MACHINERY. .	2 777	3 229	1 518	333.0	5 096.7	226.3	443.2	3 184.5	11 835.6	23 681.6	
3531	CONSTRUCTION MACHINERY	807	922	446	155.3	2 547.1	111.2	212.7	1 708.1	5 744.3	12 628.7	
3532	MINING MACHINERY	293	344	168	31.4	425.9	20.3	39.7	262.9	1 018.8	1 996.7	
3533	OILFIELD MACHINERY	386	478	247	58.6	867.5	39.8	83.4	543.3	2 437.6	3 912.4	
3534	ELEVATORS AND MOVING STAIRWAYS . . .	134	152	72	10.2	141.9	5.9	11.5	69.4	284.5	489.7	
3535	CONVEYORS AND CONVEYING EQUIPMENT. .	572	616	294	32.9	476.5	19.2	38.5	226.6	1 018.9	1 897.9	
3536	HOISTS, CRANES, AND MONORAILS. . . .	231	242	121	15.8	210.5	10.6	20.6	122.0	453.2	836.0	
3537	INDUSTRIAL TRUCKS AND TRACTORS . . .	450	475	170	28.8	427.3	19.4	36.7	252.2	878.2	1 920.1	
354	METALWORKING MACHINERY	10 164	10 630	2 680	297.8	4 513.9	217.8	447.4	2 963.1	8 746.7	13 283.0	
3541	MACHINE TOOLS, METAL-CUTTING	874	919	307	59.5	951.0	37.3	76.6	542.2	1 871.0	2 819.1	
3542	MACHINE TOOLS, METAL-FORMING	411	426	163	23.7	360.7	16.1	32.8	219.4	721.9	1 130.6	
3544	SPECIAL DIES, TOOLS, JIGS, ETC	7 033	7 152	1 426	105.6	1 706.3	86.3	183.8	1 260.4	2 786.9	3 901.3	
3545	MACHINE TOOL ACCESSORIES	1 271	1 412	492	54.1	762.5	39.9	80.2	498.2	1 585.8	2 384.5	
3546	POWER DRIVEN HANDTOOLS	99	124	71	27.7	325.7	20.0	38.5	210.4	931.9	1 623.2	
3547	ROLLING MILL MACHINERY	58	63	38	7.9	128.2	5.4	10.4	78.4	286.9	507.4	
3549	METALWORKING MACHINERY, NEC.	522	534	183	19.4	279.5	12.8	25.2	154.1	562.2	916.8	
355	SPECIAL INDUSTRY MACHINERY	3 798	4 090	1 487	185.0	2 615.9	117.6	235.7	1 449.9	5 271.4	9 128.2	
3551	FOOD PRODUCTS MACHINERY.	585	740	315	36.3	522.1	22.8	45.4	292.6	1 056.4	1 786.8	
3552	TEXTILE MACHINERY.	600	639	217	26.0	300.8	18.3	36.3	185.3	540.0	951.0	
3553	WOODWORKING MACHINERY.	291	301	105	10.3	131.2	7.4	14.7	81.9	317.8	585.6	
3554	PAPER INDUSTRIES MACHINERY	193	213	103	16.4	247.5	9.3	18.8	123.8	464.9	826.9	
3555	PRINTING TRADES MACHINERY.	520	595	199	25.5	369.2	15.6	31.7	192.9	793.6	1 350.9	
3559	SPECIAL INDUSTRY MACHINERY, NEC. . .	1 548	1 602	548	70.6	1 045.1	44.1	88.7	573.4	2 098.7	3 627.0	
356	GENERAL INDUSTRIAL MACHINERY	4 464	4 947	1 806	313.5	4 451.1	212.4	420.6	2 712.4	9 672.6	16 542.0	
3561	PUMPS AND PUMPING EQUIPMENT.	515	613	285	63.0	900.6	39.8	79.5	506.9	2 141.6	3 773.7	
3562	BALL AND ROLLER BEARINGS	102	149	104	50.6	752.6	41.3	82.4	579.9	1 472.7	2 567.3	
3563	AIR AND GAS COMPRESSORS.	148	175	103	32.0	465.6	19.1	38.2	255.2	1 145.5	2 075.6	
3564	BLOWERS AND FANS	432	482	198	28.0	356.8	18.6	36.7	209.6	776.7	1 430.8	
3565	INDUSTRIAL PATTERNS.	1 001	1 002	115	9.3	152.7	8.0	15.8	122.2	252.5	320.6	
3566	SPEED CHANGERS, DRIVES, AND GEARS. .	307	327	162	25.3	365.4	17.6	35.0	226.7	803.1	1 222.3	
3567	INDUSTRIAL FURNACES AND OVENS. . . .	311	327	137	15.2	209.4	9.3	17.9	107.4	469.3	746.3	
3568	POWER TRANSMISSION EQUIPMENT, NEC. .	184	226	163	32.5	464.8	23.8	45.8	306.8	1 009.1	1 626.0	
3569	GENERAL INDUSTRIAL MACHINERY, NEC. .	1 586	1 646	539	57.5	783.2	34.9	69.2	397.7	1 602.2	2 779.5	
357	OFFICE AND COMPUTING MACHINES. . . .	1 175	1 317	610	259.3	3 948.8	123.5	243.3	1 384.4	9 921.4	16 841.9	
3573	ELECTRONIC COMPUTING EQUIPMENT . . .	808	932	435	192.7	3 004.3	85.5	172.4	978.4	7 623.5	12 923.6	
3574	CALCULATING, ACCOUNTING MACHINES . .	58	64	31	17.1	220.7	10.4	18.1	92.9	391.3	850.0	
3576	SCALES, BALANCES, EXC. LABORATORY. .	92	103	46	7.1	84.5	4.7	9.1	46.9	214.9	348.1	
3579	OFFICE MACHINES, TYPEWRITERS, ETC. .	191	215	98	42.4	639.1	22.9	43.7	266.1	1 691.4	2 719.7	
358	REFRIGERATION AND SERVICE MACH. . .	1 922	2 114	837	191.5	2 516.4	138.4	270.7	1 637.4	5 962.6	12 416.1	
3581	AUTOMATIC MERCHANDISING MACHINES . .	108	113	35	8.8	103.2	6.4	12.4	65.1	211.7	410.1	
3582	COMMERCIAL LAUNDRY EQUIPMENT	90	94	38	4.6	54.4	3.3	6.4	35.6	117.3	220.3	
3585	REFRIGERATION, HEATING EQUIPMENT . .	731	860	457	138.6	1 849.7	104.4	205.4	1 270.2	4 469.2	9 638.1	
3586	MEASURING AND DISPENSING PUMPS . . .	57	59	30	7.4	97.3	5.1	9.7	57.9	218.0	375.7	
3589	SERVICE INDUSTRY MACHINERY, NEC. . .	959	988	277	32.1	411.8	19.2	36.9	208.6	946.4	1 771.8	
359	MISC. MACHINERY, EXC. FLEC	19 257	19 399	2 584	222.7	2 980.4	176.8	350.5	2 105.6	5 362.4	8 011.8	
3592	CARBURETORS, PISTONS, RINGS, ETC. . .	131	151	84	32.2	508.5	26.0	52.5	388.5	924.9	1 400.6	
3599	MACHINERY, EXCEPT ELECTRICAL, NEC. .	19 137	19 248	2 500	190.5	2 471.8	150.8	298.0	1 717.1	4 437.6	6 611.2	

See footnotes at end of table.

Table 4. Selected Statistics by Major Industry Group and Industry: 1977 and 1972--Con.

Code	Industry group and industry	1977--Continued						1972					
		New capital expenditures ⁴			Inventories		Ratios		All employees		Value added by manu- facture (million dollars)	Value of ship- ments ¹ (million dollars)	New capital expend- itures ¹ (million dollars)
		Total (million dollars)	Struc- tures and additions (million dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Spe- cial- iza- tion (per- cent)	Cov- er- age (per- cent)	Num- ber (1,000)	Payroll (million dollars)			
3449	MISCELLANEOUS METALWORK.	20.5	5.2	15.3	211.8	204.8	91	78	19.5	178.8	362.2	980.4	26.2
345	SCREW MACHINE PROD., BOLTS, ETC. .	184.1	26.6	157.5	944.9	881.3	(NA)	(NA)	100.6	948.0	1 845.3	3 091.5	88.9
3451	SCREW MACHINE PRODUCTS	71.9	9.1	62.8	230.6	207.9	96	92	40.5	357.3	648.5	1 063.8	33.2
3452	BOLTS, NUTS, RIVETS, AND WASHERS . .	112.3	17.5	94.8	714.3	673.3	94	94	60.1	590.7	1 196.8	2 027.6	55.7
346	METAL FORGINGS AND STAMPINGS	604.4	78.9	525.6	2 361.4	2 160.0	(NA)	(NA)	263.5	2 791.4	5 057.3	9 956.9	237.7
3462	IRON AND STEEL FORGINGS.	126.7	16.5	110.2	452.7	429.8	92	84	34.3	387.2	661.8	1 416.1	28.1
3463	NONFERROUS FORGINGS.	13.7	3.6	10.1	123.8	101.1	87	67	5.8	63.7	104.0	222.5	7.0
3465	AUTOMOTIVE STAMPINGS	292.2	25.1	267.1	948.3	872.8	92	91	123.3	1 485.4	2 663.8	5 286.0	117.5
3466	CROWNS AND CLOSURES.	17.1	2.0	15.1	121.0	99.2	95	86	8.1	74.1	166.7	343.5	8.3
3469	METAL STAMPINGS, NEC	154.7	31.6	123.0	715.7	657.2	88	88	92.0	781.0	1 461.0	2 688.8	76.7
347	METAL SERVICES, NEC.	121.1	22.2	98.8	287.2	251.6	(NA)	(NA)	82.1	624.2	1 120.3	1 736.3	64.2
3471	PLATING AND POLISHING.	73.2	14.7	58.4	128.3	112.5	(*)	(*)	54.6	403.1	741.2	1 034.5	40.2
3479	METAL COATING AND ALLIED SERVICES. .	47.9	7.5	40.4	159.0	139.2	(*)	(*)	27.6	221.1	379.2	701.8	24.0
348	ORDNANCE AND ACCESSORIES, NEC. . . .	82.5	15.0	67.5	518.8	462.1	(NA)	(NA)	109.5	1 015.3	1 476.0	2 787.0	61.6
3482	SMALL ARMS AMMUNITION.	42.9	5.7	37.1	117.6	121.9	95	90	13.9	129.3	228.6	438.0	10.8
3483	AMMUNITION, EXC. SMALL ARMS, NEC . .	9.2	2.0	7.2	58.3	62.7	83	76	54.9	479.1	624.1	1 477.9	24.5
3484	SMALL ARMS	20.5	6.1	14.4	166.7	153.5	94	99	16.1	152.1	278.6	393.5	11.3
3489	ORDNANCE AND ACCESSORIES NEC	10.1	1.3	8.8	176.2	123.9	81	68	24.6	254.8	344.7	477.7	15.0
349	MISC. FABRICATED METAL PRODUCTS. . .	452.0	93.0	359.1	3 080.9	2 847.1	(NA)	(NA)	244.3	2 141.7	4 283.0	7 784.8	212.2
3493	STEEL SPRINGS, EXCEPT WIRE	14.1	2.4	11.7	81.6	73.7	84	72	8.5	79.9	149.7	331.4	6.6
3494	VALVES AND PIPE FITTINGS	201.2	42.5	158.7	1 508.2	1 374.8	89	88	94.3	879.9	1 751.2	2 956.9	79.0
3495	WIRE SPRINGS	27.6	4.5	23.1	104.5	105.9	92	92	23.7	193.2	340.7	611.9	12.9
3496	MISC. FABRICATED WIRE PRODUCTS . . .	47.3	10.6	36.6	252.8	233.6	91	37	33.2	261.4	504.4	959.7	28.9
3497	METAL FOIL AND LEAF.	16.1	1.8	14.3	141.1	124.6	80	63	5.4	51.9	126.5	282.0	8.2
3498	FABRICATED PIPE AND FITTINGS	51.0	12.7	38.3	418.4	395.3	94	93	17.5	164.7	363.1	704.4	14.7
3499	FABRICATED METAL PRODUCTS, NEC	94.8	18.5	76.3	574.3	539.2	89	83	61.8	510.7	1 047.4	1 938.6	61.8
35	MACHINERY, EXCEPT ELECTRICAL . . .	4 402.4	948.7	3 453.7	27 170.9	25 153.3	(NA)	(NA)	1 827.7	18 523.3	37 562.9	65 820.7	1 906.3
351	ENGINES AND TURBINES	329.9	44.5	285.4	2 169.6	1 909.0	(NA)	(NA)	116.0	1 320.3	2 899.5	5 507.4	185.5
3511	TURBINES, TURBINE GENERATOR SETS . .	44.1	5.4	38.8	827.6	775.5	92	82	46.2	548.9	1 225.3	2 189.0	93.5
3519	INTERNAL COMBUSTION ENGINES, NEC . . .	285.8	39.1	246.7	1 342.0	1 133.5	91	88	69.9	771.4	1 674.2	3 318.4	92.0
352	FARM AND GARDEN MACHINERY.	370.5	75.4	295.1	2 464.1	2 441.7	(NA)	(NA)	125.3	1 211.2	2 701.2	5 590.4	163.6
3523	FARM MACHINERY AND EQUIPMENT	341.9	70.5	271.3	2 083.4	2 088.8	92	95	104.6	1 045.7	2 248.0	4 531.4	116.0
3524	LAWN AND GARDEN EQUIPMENT.	28.6	4.9	23.8	380.7	352.9	92	82	20.7	165.5	453.2	1 059.1	47.6
353	CONSTRUCTION, RELATED MACHINERY. . .	932.4	268.4	664.0	6 156.5	6 095.7	(NA)	(NA)	275.4	2 855.7	5 962.2	11 089.5	282.1
3531	CONSTRUCTION MACHINERY	498.3	151.4	346.8	3 142.3	3 171.8	91	95	133.8	1 460.2	3 130.7	6 091.0	159.5
3532	MINING MACHINERY	67.0	23.8	43.2	646.1	603.7	88	86	21.3	197.6	393.2	771.2	13.4
3533	OILFIELD MACHINERY	257.5	67.9	189.7	1 212.5	1 216.0	88	95	35.9	357.5	788.6	1 213.0	54.7
3534	ELEVATORS AND MOVING STAIRWAYS . . .	8.8	1.8	7.1	119.1	123.0	96	93	15.0	144.5	310.2	483.6	7.8
3535	CONVEYORS AND CONVEYING EQUIPMENT. .	34.7	9.0	25.7	363.8	329.9	90	87	27.2	275.5	540.1	968.0	13.2
3536	HOISTS, CRANES, AND MONORAILS. . . .	17.9	4.5	13.3	203.6	196.6	87	76	16.3	160.9	274.7	527.3	13.8
3537	INDUSTRIAL TRUCKS AND TRACTORS	48.3	10.0	38.3	469.1	454.7	94	95	25.8	259.5	524.7	1 035.4	19.7
354	METALWORKING MACHINERY	438.6	79.1	359.5	2 848.1	2 510.1	(NA)	(NA)	268.1	2 858.6	4 901.7	7 267.0	218.8
3541	MACHINE TOOLS, METAL-CUTTING	82.2	15.4	66.8	878.4	741.5	87	92	52.5	573.8	901.7	1 418.1	35.2
3542	MACHINE TOOLS, METAL-FORMING	24.7	3.2	21.5	359.6	317.2	90	87	24.1	265.4	417.7	696.3	17.5
3544	SPECIAL DIES, TOOLS, JIGS, ETC.	175.7	29.3	146.4	449.9	378.6	94	79	97.8	1 113.8	1 797.4	2 423.7	97.0
3545	MACHINE TOOL ACCESSORIES	77.2	13.8	63.4	468.5	413.3	89	88	46.7	456.6	876.1	1 243.4	30.2
3546	POWER DRIVEN HANDTOOLS	39.0	7.4	31.6	326.0	311.4	91	90	23.1	202.3	434.5	730.5	20.3
3547	ROLLING MILL MACHINERY	9.1	.6	8.4	131.8	154.5	78	86	10.4	115.2	206.4	327.8	6.3
3549	METALWORKING MACHINERY, NEC.	30.7	9.3	21.5	233.8	193.7	88	82	13.6	131.5	267.9	427.3	12.3
355	SPECIAL INDUSTRY MACHINERY	243.6	58.4	185.2	2 309.2	2 172.4	(NA)	(NA)	190.1	1 853.9	3 731.9	6 207.2	160.0
3551	FOOD PRODUCTS MACHINERY.	46.9	9.0	37.9	499.4	453.4	90	92	31.9	315.9	605.2	1 000.1	21.8
3552	TEXTILE MACHINERY.	32.2	7.9	24.3	233.5	256.7	93	94	32.7	271.0	487.9	823.7	27.6
3553	WOODWORKING MACHINERY.	13.8	3.0	10.8	111.6	100.6	94	95	13.7	123.9	285.1	495.2	12.4
3554	PAPER INDUSTRIES MACHINERY	17.2	4.5	12.6	220.2	225.0	84	90	15.3	159.0	254.0	447.8	8.3
3555	PRINTING TRADES MACHINERY.	46.8	14.0	32.7	355.4	316.7	97	92	23.9	249.4	503.6	823.5	16.1
3559	SPECIAL INDUSTRY MACHINERY, NEC. . . .	86.8	20.0	66.8	889.2	820.0	88	85	72.6	734.7	1 596.1	2 616.9	73.8
356	GENERAL INDUSTRIAL MACHINERY	552.7	116.8	435.9	4 013.9	3 698.0	(NA)	(NA)	262.0	2 585.4	5 019.7	8 433.7	232.1
3561	PUMPS AND PUMPING EQUIPMENT.	123.5	26.0	97.5	1 024.0	925.1	88	88	55.5	532.9	1 095.6	1 917.3	56.9
3562	BALL AND ROLLER BEARINGS	132.9	21.6	111.3	621.7	569.0	96	98	50.9	525.5	931.3	1 530.5	51.3
3563	AIR AND GAS COMPRESSORS.	55.8	10.8	45.0	610.9	589.0	88	89	22.9	226.6	467.5	858.4	15.3
3564	BLOWERS AND FANS	37.5	11.2	26.3	242.9	232.6	89	87	23.5	216.1	468.8	805.3	22.2
3565	INDUSTRIAL PATTERNS.	11.1	2.1	9.0	25.2	20.6	97	75	8.5	103.1	161.0	198.0	5.3
3566	SPEED CHANGERS, DRIVES, AND GEARS. .	48.5	11.6	36.9	297.8	283.6	87	84	22.5	224.2	409.0	632.7	21.8
3567	INDUSTRIAL FURNACES AND OVENS. . . .	13.4	2.6	10.8	151.4	118.1	91	90	13.6	138.5	244.3	443.2	7.5
3568	POWER TRANSMISSION EQUIPMENT, NEC. .	50.3	8.1	42.3	418.8	381.8	82	74	27.7	266.5	544.4	876.4	20.4
3569	GENERAL INDUSTRIAL MACHINERY, NEC. .	79.6	22.8	56.8	621.2	578.2	88	86	37.0	351.8	697.7	1 171.9	31.3
357	OFFICE AND COMPUTING MACHINES. . . .	826.1	166.1	660.1	3 887.3	3 331.9	(NA)	(NA)	208.4	2 277.3	4 904.5	8 604.9	287.0
3573	ELECTRONIC COMPUTING EQUIPMENT . . .	651.5	107.3	544.2	3 007.9	2 526.0	94	91	144.8	1 668.3	3 497.6	6 471.2	212.8
3574	CALCULATING, ACCOUNTING												

See footnotes at end of table.

Table 4. Selected Statistics by Major Industry Group and Industry: 1977 and 1972—Con.

Code	Industry group and industry	1977										Value added by manu- facture (million dollars)	Value of ship- ments ¹ (million dollars)
		Companies (number)	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Value of ship- ments ¹ (million dollars)		
			Total (number)	With 20 employees or more (number)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (million)	Wages (million dollars)				
36	ELECTRIC, ELECTRONIC EQUIP . . .	12 554	14 973	6 338	1 723.1	22 544.2	1 191.4	2 309.2	12 951.6	50 365.7	88 433.1		
361	ELECTRIC DISTRIBUTING EQUIPMENT. .	753	947	459	115.3	1 431.3	84.9	162.3	909.9	3 335.9	5 771.7		
3612	TRANSFORMERS	229	279	143	43.3	529.6	32.8	62.5	349.8	1 170.0	2 209.1		
3613	SWITCHGEAR, SWITCHBOARD APPARATUS. .	542	668	316	72.0	901.7	52.1	99.9	560.1	2 165.9	3 562.6		
362	ELECTRICAL INDUSTRIAL APPARATUS. .	1 407	1 646	819	198.4	2 542.6	142.0	278.8	1 572.1	5 614.2	9 591.4		
3621	MOTORS AND GENERATORS.	343	447	299	96.9	1 177.6	74.2	145.8	802.6	2 609.8	4 462.7		
3622	INDUSTRIAL CONTROLS.	676	726	283	55.4	726.6	35.3	69.0	380.1	1 602.2	2 511.4		
3623	WELDING APPARATUS, ELECTRIC.	160	176	87	17.5	285.7	11.3	23.0	165.1	582.7	1 189.6		
3624	CARBON AND GRAPHITE PRODUCTS	58	74	48	12.1	164.1	9.0	17.7	110.9	408.4	735.2		
3629	ELEC. INDUSTRIAL APPARATUS, NEC. . . .	213	223	102	16.5	188.6	12.2	23.4	113.4	411.0	692.4		
363	HOUSEHOLD APPLIANCES	528	666	342	162.3	1 898.1	128.7	243.1	1 352.1	5 276.2	10 736.5		
3631	HOUSEHOLD COOKING EQUIPMENT.	84	96	58	25.4	289.1	19.1	36.8	197.9	784.1	1 707.2		
3632	HOUSEHOLD REFRIGERATORS, FREEZERS. .	33	42	25	35.8	468.6	29.8	56.9	358.0	1 166.1	2 576.6		
3633	HOUSEHOLD LAUNDRY EQUIPMENT.	21	31	24	19.4	262.4	15.9	29.4	202.4	844.7	1 792.8		
3634	ELECTRIC HOUSEWARES AND FANS	239	291	148	47.3	458.7	37.6	71.4	305.0	1 365.7	2 531.2		
3635	HOUSEHOLD VACUUM CLEANERS.	32	35	22	10.4	116.6	7.3	12.9	78.9	378.8	639.9		
3636	SEWING MACHINES.	86	91	25	8.2	107.0	6.1	10.6	66.8	208.9	304.9		
3639	HOUSEHOLD APPLIANCES, NEC.	65	80	40	15.7	195.6	12.8	25.1	143.2	527.9	1 184.0		
364	ELEC. LIGHTING, WIRING EQUIP	1 762	2 009	913	165.0	1 925.4	127.2	244.6	1 292.1	4 741.2	8 357.0		
3641	ELECTRIC LAMPS	128	167	64	28.7	322.4	25.3	47.5	266.3	1 089.2	1 651.4		
3643	CURRENT-CARRYING WIRING DEVICES. . .	361	413	198	43.9	480.3	33.6	66.2	312.1	1 100.1	1 795.2		
3644	NONCURRENT-CARRYING WIRING DEVICES. .	174	202	123	25.8	330.1	18.4	35.9	210.9	744.4	1 421.8		
3645	RESIDENTIAL LIGHTING FIXTURES.	675	710	244	23.7	229.5	18.2	33.4	139.4	494.2	986.6		
3646	COMMERCIAL LIGHTING FIXTURES	192	218	122	15.6	169.1	11.1	20.6	98.8	434.7	922.7		
3647	VEHICULAR LIGHTING EQUIPMENT	70	75	43	14.5	246.0	11.4	23.3	178.8	536.0	908.5		
3648	LIGHTING EQUIPMENT, NEC.	211	224	119	12.8	148.0	9.1	17.7	85.8	342.6	671.0		
365	RADIO, TV RECEIVING EQUIPMENT. . . .	1 223	1 290	325	97.7	1 097.0	75.4	143.8	740.0	3 078.1	6 913.2		
3651	RADIO AND TV RECEIVING SETS.	546	581	192	74.6	852.4	57.6	106.6	570.0	2 350.9	5 731.6		
3652	PHONO. RECORDS, PRERECORDED TAPE . .	679	709	133	23.1	244.6	17.8	37.2	170.0	727.3	1 181.7		
366	COMMUNICATION EQUIPMENT.	2 068	2 385	1 126	458.5	6 995.0	259.6	499.5	3 226.2	14 130.0	22 744.2		
3661	TELEPHONE AND TELEGRAPH APPARATUS. .	208	264	154	124.4	1 818.0	87.1	164.2	1 125.9	4 192.0	7 858.3		
3662	RADIO AND TV COMMUNICATION EQUIP . .	1 873	2 121	972	334.1	5 177.0	172.4	335.2	2 100.3	9 938.0	14 886.0		
367	ELECTRONIC COMPONENTS, ACCESS. . . .	4 019	4 455	1 671	373.5	4 556.5	257.9	508.7	2 457.4	9 259.6	15 389.6		
3671	ELECTRON TUBES, RECEIVING TYPE	125	146	60	36.7	514.1	27.5	53.7	324.5	909.6	1 581.7		
3674	SEMICONDUCTORS, RELATED DEVICES. . .	499	545	219	114.0	1 601.1	63.5	126.5	670.3	3 414.0	5 327.1		
3675	ELECTRONIC CAPACITORS.	86	118	97	28.9	260.5	23.4	45.7	179.0	486.1	742.3		
3676	ELECTRONIC RESISTORS	77	101	80	21.3	210.9	15.9	32.4	130.6	401.0	578.3		
3677	ELECTRONIC COILS AND TRANSFORMERS. .	276	294	194	20.7	166.6	17.1	31.8	113.1	289.1	506.4		
3678	ELECTRONIC CONNECTORS.	106	133	107	26.0	303.6	19.1	37.6	185.1	754.2	1 104.6		
3679	ELECTRONIC COMPONENTS, NEC	3 005	3 118	914	125.9	1 499.7	91.4	181.0	854.7	3 005.7	5 549.2		
369	MISC. ELEC. EQUIPMENT, SUPPLIES. . . .	1 340	1 575	683	152.4	2 098.3	115.7	228.4	1 401.8	4 930.4	8 929.5		
3691	STORAGE BATTERIES.	134	218	134	25.9	358.7	21.1	43.4	276.4	927.8	1 982.5		
3692	PRIMARY BATTERIES, DRY AND WET	41	58	33	11.0	118.2	9.0	18.0	87.4	343.2	666.1		
3693	X-RAY APPARATUS AND TUBES.	212	243	126	30.9	467.6	17.1	33.3	195.5	1 231.9	1 884.7		
3694	ENGINE ELECTRICAL EQUIPMENT.	372	409	181	63.8	948.4	51.8	102.6	708.6	2 041.3	3 647.2		
3699	ELECTRICAL EQUIP., SUPPLIES, NEC	612	647	209	20.7	205.3	16.7	31.1	133.9	386.2	749.0		
37	TRANSPORTATION EQUIPMENT	8 934	10 176	3 653	1 768.2	30 673.5	1 284.4	2 612.7	20 314.3	64 291.1	166 954.0		
371	MOTOR VEHICLES AND EQUIPMENT	3 591	4 234	1 708	876.3	16 037.7	727.6	1 524.2	12 682.4	37 023.1	117 746.5		
3711	MOTOR VEHICLES AND CAR BODIES.	254	322	119	343.6	7 077.6	289.9	620.4	5 724.9	18 723.7	76 517.8		
3713	TRUCK AND BUS BODIES	770	820	313	34.8	428.6	27.4	53.9	307.6	946.3	2 003.3		
3714	MOTOR VEHICLE PARTS, ACCESSORIES . . .	2 194	2 623	997	450.7	8 004.0	372.5	777.2	6 284.9	16 263.8	35 750.8		
3715	TRUCK TRAILERS	316	353	165	28.1	322.0	22.5	43.1	229.9	645.9	1 910.1		
3716	MOTOR HOMES.	80	116	114	19.2	205.4	15.4	29.6	135.1	443.3	1 564.5		
372	AIRCRAFT AND PARTS	1 027	1 173	549	430.8	7 620.5	240.1	475.0	3 563.5	14 731.7	25 867.1		
3721	AIRCRAFT	151	176	74	222.7	3 975.9	119.0	232.7	1 765.2	8 134.1	14 834.2		
3724	AIRCRAFT ENGINES AND ENGINE PARTS. .	226	269	177	106.1	1 939.4	62.4	128.7	970.0	3 599.1	6 272.3		
3728	AIRCRAFT EQUIPMENT, NEC.	681	728	298	102.0	1 705.2	58.7	113.7	828.3	2 998.4	4 760.6		
373	SHIP, BOAT BUILDING, REPAIRING	2 692	2 795	736	220.2	2 939.8	175.5	345.6	2 132.1	4 681.4	8 317.8		
3731	SHIP BUILDING AND REPAIRING.	542	605	314	176.4	2 494.0	139.9	277.2	1 807.4	3 825.0	6 495.1		
3732	BOAT BUILDING AND REPAIRING.	2 148	2 190	422	43.8	445.8	35.6	68.4	324.7	856.3	1 822.6		
3743	RAILROAD EQUIPMENT	145	201	118	56.3	888.6	42.6	79.4	619.9	1 882.8	4 278.3		
3751	MOTORCYCLES, BICYCLES, AND PARTS . .	343	350	63	15.6	168.9	13.3	24.6	129.9	369.8	1 007.6		
376	GUIDED MISSILES, SPACE VEHICLES. . . .	74	109	86	119.8	2 427.3	46.2	90.2	770.6	4 421.9	6 599.3		
3761	GUIDED MISSILES, SPACE VEHICLES. . . .	20	40	37	94.0	1 931.5	35.2	67.0	603.8	2 564.8	5 314.4		
3764	SPACE PROPULSION UNITS AND PARTS . . .	18	25	24	18.6	356.6	7.1	14.9	111.5	620.7	945.5		
3769	SPACE VEHICLE EQUIPMENT, NEC	41	42	25	7.2	139.2	3.9	8.3	55.3	236.3	339.4		
379	MISC. TRANSPORTATION EQUIPMENT . . .	1 206	1 314	393	49.1	590.7	39.1	73.8	415.9	1 180.5	3 137.5		
3792	TRAVEL TRAILERS AND CAMPERS.	775	861	266	26.3	275.7	21.8	40.7	197.1	510.3	1 582.4		
3795	TANKS AND TANK COMPONENTS.	20	24	18	12.4	208.5	10.0	19.8	156.2	437.6	934.2		
3799	TRANSPORTATION EQUIPMENT, NEC. . . .	408	429	109	10.3	106.6	7.4	13.3	62.6	232.7	620.9		
38	INSTRUMENTS, RELATED PRODUCTS. . . .	6 616	7 481	2 538	559.1	7 520.4	347.2	677.9	3 743.2	18 762.0	28 897.8		
3811	ENGINEERING, SCIENTIFIC INSTRU	740	786	279	42.3	584.4	24.7	48.7	280.7	1 287.2	1 926.7		
382	MEASURING, CONTROLLING DEVICES	1 847	2 079	849	200.1	2 665.8	121.4	237.6	1 288.4	5 242.3	7 910.3		
3822	ENVIRONMENTAL CONTROLS	182	201	91	39.0	450.3	30.6	57.9	315.6	859.6	1 358.7		
3823	PROCESS CONTROL INSTRUMENTS.	383	426	207	46.5	664.8	23.4	47.0	265.9	1 399.4	2 022.0		
3824	FLUID METERS AND COUNTING DEVICES. . .	100	111	62	15.9	197.6	11.2	22.5	118.0	429.0	650.4		
3825	INSTRU. TO MEASURE ELECTRICITY	622	671	279	66.5	889.1	40.4	78.3	414.5	1 807.7	2 761.0		
3829	MEASURING, CONTROLLING DEVICES, NEC .	649	670	210	32.3	464.0	15.8	31.8	174.5	746.6	1 118.1		

See footnotes at end of table.

Table 4. Selected Statistics by Major Industry Group and Industry: 1977 and 1972--Con.

Code	Industry group and industry	1977--Continued						1972					
		New capital expenditures ^a			Inventories		Ratios			All employees		Value added by manu- facture	
		Total (million dollars)	Struc- tures and additions (million dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Spe- cial- iza- tion (per- cent)	Cov- er- age (per- cent)	Num- ber (1,000)	Payroll (million dollars)		Value of ship- ments ¹ (million dollars)	New capital expend- itures (million dollars)
36	ELECTRIC, ELECTRONIC EQUIP . . .	2 866.5	519.9	2 346.6	16 058.7	14 273.0	(NA)	(NA)	1 661.1	15 189.0	30 578.5	53 394.3	1 417.5
361	ELECTRIC DISTRIBUTING EQUIPMENT. .	141.2	24.7	116.5	1 039.6	944.2	(NA)	(NA)	116.0	1 040.0	2 060.3	3 585.4	63.7
3612	TRANSFORMERS	67.2	8.7	58.5	385.8	344.1	95	97	46.8	420.2	757.3	1 461.9	26.8
3613	SWITCHGEAR, SWITCHBOARD APPARATUS. .	73.9	16.0	58.0	653.8	600.1	91	91	69.2	619.8	1 303.0	2 123.5	36.9
362	ELECTRICAL INDUSTRIAL APPARATUS. .	311.0	64.5	246.5	2 002.1	1 791.4	(NA)	(NA)	188.0	1 665.1	3 217.9	5 402.3	148.3
3621	MOTORS AND GENERATORS.	162.6	28.7	133.8	771.4	678.0	92	80	90.3	764.4	1 475.2	2 501.7	58.9
3622	INDUSTRIAL CONTROLS.	57.5	12.8	44.7	616.1	563.9	87	86	51.1	465.6	908.4	1 424.1	46.8
3623	WELDING APPARATUS, ELECTRIC.	38.7	14.5	24.1	258.8	226.2	86	94	15.5	173.9	353.5	659.6	11.4
3624	CARBON AND GRAPHITE PRODUCTS	35.4	4.6	30.8	215.9	200.0	94	93	11.3	99.6	217.4	377.4	20.2
3629	ELEC. INDUSTRIAL APPARATUS, NEC. . . .	16.8	3.8	13.0	140.0	123.3	87	81	20.2	165.0	270.0	449.4	11.2
363	HOUSEHOLD APPLIANCES	207.0	42.4	164.6	1 674.7	1 524.3	(NA)	(NA)	163.0	1 369.2	3 563.7	6 940.3	151.8
3631	HOUSEHOLD COOKING EQUIPMENT.	36.1	8.9	27.1	303.8	283.7	92	80	23.3	205.7	412.0	939.8	25.5
3632	HOUSEHOLD REFRIGERATORS, FREEZERS. .	46.9	10.7	36.2	399.1	352.1	77	98	34.1	305.3	790.8	1 719.7	25.5
3633	HOUSEHOLD LAUNDRY EQUIPMENT.	27.3	7.6	19.7	170.6	162.1	87	90	23.6	223.1	684.7	1 356.5	31.0
3634	ELECTRIC HOUSEWARES AND FANS	47.8	8.3	39.5	429.5	409.2	87	90	51.3	357.5	909.2	1 613.3	32.6
3635	HOUSEHOLD VACUUM CLEANERS.	16.2	.7	15.5	85.2	81.0	(D)	81	11.2	98.7	299.5	467.7	9.7
3636	SEWING MACHINES.	8.1	.8	7.2	122.3	103.6	(D)	(D)	5.3	54.6	124.6	159.6	9.3
3639	HOUSEHOLD APPLIANCES, NEC.	24.6	5.4	19.2	164.2	132.6	93	79	14.0	123.5	341.4	681.9	18.3
364	ELEC. LIGHTING, WIRING EQUIP	217.1	36.9	180.3	1 414.7	1 267.1	(NA)	(NA)	177.1	1 415.7	3 276.8	5 650.8	159.7
3641	ELECTRIC LAMPS	36.6	5.9	30.7	121.4	104.3	97	98	31.5	239.7	724.4	1 095.7	31.1
3643	CURRENT-CARRYING WIRING DEVICES. . .	55.8	10.3	45.5	341.5	284.7	84	79	50.4	382.5	792.1	1 255.9	53.7
3644	NONCURRENT-CARRYING WIRING DEVICES. .	32.8	9.4	23.4	350.5	335.3	82	83	25.7	217.0	490.8	886.4	25.2
3645	RESIDENTIAL LIGHTING FIXTURES. . . .	11.8	2.6	9.2	193.2	183.1	95	92	26.5	189.3	390.2	767.2	13.7
3646	COMMERCIAL LIGHTING FIXTURES	18.0	3.5	14.6	182.3	162.5	90	86	18.8	148.3	350.4	718.7	13.7
3647	VEHICULAR LIGHTING EQUIPMENT	46.3	2.5	43.8	97.1	78.2	68	94	13.6	142.1	299.8	499.8	7.2
3648	LIGHTING EQUIPMENT, NEC.	15.8	2.8	13.0	128.6	118.8	85	81	12.7	107.9	254.3	466.5	16.6
365	RADIO, TV RECEIVING EQUIPMENT. . . .	135.7	31.4	104.3	956.2	903.6	(NA)	(NA)	106.9	797.9	2 183.4	5 007.8	75.5
3651	RADIO AND TV RECEIVING SETS.	105.8	26.4	79.4	835.0	794.8	94	98	86.5	651.4	1 807.8	4 440.1	58.6
3652	PHONO, RECORDS, PRERECORDED TAPE . .	29.8	5.0	24.8	121.3	108.8	99	99	20.3	146.5	375.6	567.7	16.9
366	COMMUNICATION EQUIPMENT.	688.7	118.5	570.2	4 662.0	4 110.5	(NA)	(NA)	453.6	4 912.1	8 453.1	13 665.0	381.4
3661	TELEPHONE AND TELEGRAPH APPARATUS. .	217.3	17.1	200.2	1 503.3	1 220.2	94	97	134.4	1 323.0	2 650.1	4 524.7	169.2
3662	RADIO AND TV COMMUNICATION EQUIP . .	471.4	101.4	370.0	3 158.7	2 890.3	92	92	319.2	3 589.1	5 803.1	9 140.2	212.2
367	ELECTRONIC COMPONENTS, ACCESS. . . .	782.6	126.3	656.3	2 773.3	2 445.6	(NA)	(NA)	335.8	2 869.3	5 305.8	8 825.9	344.4
3671	ELECTRON TUBES, RECEIVING TYPE . . .	52.6	15.2	37.4	254.7	231.1	78	93	11.4	87.7	173.8	230.4	1.8
3674	SEMICONDUCTORS, RELATED DEVICES. . .	409.0	60.8	348.2	909.5	819.3	93	94	97.6	953.1	1 735.1	2 704.8	170.5
3675	ELECTRONIC CAPACITORS.	34.0	6.7	27.3	152.4	135.8	92	91	27.6	169.2	298.6	445.8	13.4
3676	ELECTRONIC RESISTORS	25.1	2.7	22.4	104.2	93.7	87	81	20.5	144.5	263.5	372.2	10.4
3677	ELECTRONIC COILS AND TRANSFORMERS. .	9.2	2.1	7.1	74.5	73.2	91	75	24.2	147.8	228.7	377.8	9.9
3678	ELECTRONIC CONNECTORS.	40.4	3.9	36.6	234.5	204.5	78	86	18.1	141.2	345.6	483.3	12.2
3679	ELECTRONIC COMPONENTS, NEC	212.3	34.9	177.4	1 043.4	888.0	79	74	100.5	846.4	1 577.2	3 046.6	86.1
369	MISC. ELEC. EQUIPMENT, SUPPLIES. . . .	383.2	75.3	308.0	1 536.1	1 286.3	(NA)	(NA)	120.4	1 121.4	2 497.6	4 315.0	93.5
3691	STORAGE BATTERIES.	122.2	31.6	90.7	292.9	239.4	97	99	22.1	209.3	477.8	968.6	30.8
3692	PRIMARY BATTERIES, DRY AND WET . . .	35.4	5.8	29.6	100.1	90.2	96	97	8.4	64.6	221.6	348.1	7.2
3693	X-RAY APPARATUS AND TUBES.	63.4	13.1	50.3	542.3	412.6	98	92	12.1	120.9	311.3	443.7	8.1
3694	ENGINE ELECTRICAL EQUIPMENT.	146.0	21.6	124.3	488.3	442.1	81	89	57.9	591.3	1 212.6	2 035.0	30.8
3699	ELECTRICAL EQUIP., SUPPLIES, NEC . . .	16.2	3.1	13.1	112.4	102.1	94	77	19.3	130.0	263.9	501.8	16.0
37	TRANSPORTATION EQUIPMENT	4 670.9	695.6	3 975.3	22 240.5	20 745.1	(NA)	(NA)	1 719.0	19 880.0	39 799.4	94 704.9	2 660.2
371	MOTOR VEHICLES AND EQUIPMENT	3 636.1	455.0	3 181.2	9 062.6	7 826.8	(NA)	(NA)	807.5	9 460.5	22 056.2	63 921.4	2 093.2
3711	MOTOR VEHICLES AND CAR BODIES. . . .	1 706.1	229.1	1 477.1	4 010.8	3 325.8	95	99	339.2	4 299.5	11 782.5	42 905.6	917.2
3713	TRUCK AND BUS BODIES	44.2	11.2	33.0	352.1	306.0	94	93	42.6	353.8	659.7	1 564.4	48.3
3714	MOTOR VEHICLE PARTS, ACCESSORIES . . .	1 833.2	189.9	1 643.3	4 124.1	3 699.6	94	87	400.9	4 601.5	9 164.7	18 333.5	1 113.1
3715	TRUCK TRAILERS	36.2	15.8	20.3	355.0	283.0	94	96	24.7	205.6	449.3	1 117.9	14.6
3716	MOTOR HOMES.	16.4	8.9	7.5	220.6	212.5	92	94	-	-	-	-	-
372	AIRCRAFT AND PARTS	508.3	89.8	418.5	9 301.8	9 166.0	(NA)	(NA)	438.7	5 281.7	9 123.6	15 451.4	169.0
3721	AIRCRAFT	202.4	40.2	162.2	6 618.5	6 550.7	83	98	231.8	2 867.1	5 083.0	8 779.3	57.1
3724	AIRCRAFT ENGINES AND ENGINE PARTS. .	174.9	25.4	149.5	1 440.2	1 360.2	81	95	104.7	1 256.6	1 991.7	3 640.2	73.0
3728	AIRCRAFT EQUIPMENT, NEC.	131.1	24.3	106.8	1 243.1	1 255.2	72	57	102.2	1 158.1	2 048.9	3 031.9	38.9
373	SHIP, BOAT BUILDING, REPAIRING	203.6	82.7	120.9	1 410.6	1 404.9	(NA)	(NA)	185.2	1 703.6	2 398.2	4 329.2	179.1
3731	SHIP BUILDING AND REPAIRING.	161.3	68.0	93.3	1 072.5	1 098.5	97	99	144.6	1 422.3	1 881.3	3 281.0	142.0
3732	BOAT BUILDING AND REPAIRING.	42.3	14.7	27.6	338.0	306.3	98	96	40.6	281.3	516.8	1 048.2	37.2
3743	RAILROAD EQUIPMENT	80.4	16.6	63.8	850.6	822.8	91	94	50.8	529.1	1 113.3	2 446.2	55.3
3751	MOTORCYCLES, BICYCLES, AND PARTS . .	24.1	6.0	18.1	226.5	182.1	84	97	17.6	139.6	315.2	659.5	16.0
376	GUIDED MISSILES, SPACE VEHICLES. . . .	164.2	27.7	136.5	797.6	850.9	(NA)	(NA)	160.0	2 317.1	3 969.2	5 628.2	92.3
3761	GUIDED MISSILES, SPACE VEHICLES. . . .	125.6	21.8	103.8	600.2	653.0	87	91	118.4	1 751.5	2 948.7	4 123.7	62.9
3764	SPACE PROPULSION UNITS AND PARTS . . .	25.3	5.0	20.3	167.5	175.8	92	88	20.8	276.2	506.6	716.3	18.4
3769	SPACE VEHICLE EQUIPMENT, NEC	13.3	.8	12.5	29.8	22.1	85	(D)	20.9	289.3	513.9	788.2	11.0
379	MISC. TRANSPORTATION EQUIPMENT . . .	54.1	17.7	36.4	590.8	492.4	(NA)	(NA)	59.1	448.4	823.7	2 268.9	55.2
3792	TRAVEL TRAILERS AND CAMPERS.	31.0	12.4	18.6	193.6	196.0	88	90	37.1	266.3	479.9	1 342.2	35.2
3795	TANKS AND TANK COMPONENTS.	13.2	3.2	10.0	287.8	187.9	92	82	5.9	65.0	111.7	272.2	3.1
3799	TRANSPORTATION EQUIPMENT, NEC. . . .	9.8	2.2	7.7	109.4	108.5	94	79	16.1	117.2	232.1	654.6	16.9
38	INSTRUMENTS, RELATED PRODUCTS. . . .	938.9	235.3	703.6	5 810.6	5 311.1	(NA)	(NA)	453.2	4 286.2	10 580.1	15 526.7	480.0
3811	ENGINEERING, SCIENTIFIC INSTRU	57.4	13.2	44.2	470.1	421.4	(NA)	(NA)	-	-	-	-	-
382	MEASURING, CONTROLLING DEVICES	268.0	74.4	193.7	1 979.4	1 752.3	(NA)	(NA)	152.8	1 436.5	2 723.5	3 992.4	104.8
3822	ENVIRONMENTAL CONTROLS	47.7	11.0	36.7	285.9	250.7	80	92	30.7	253.6	511.8	728.1	17.1
3823	PROCESS CONTROL INSTRUMENTS.	52.1	14.9	37.2	555.9	507.8	90	80	35.6	342.9	620.4	883.6	27.3
3824	FLUID METERS AND COUNTING DEVICES. . .	19.9	4.9	15.0	148.8	136.7	80	80	8.8	76.8	180.9	296.2	7.0
3825	INSTRU. TO MEASURE ELECTRICITY	99.1	28.8	70.3	668.9	580.1	90	89	54.7	523.5	1 046.8	1 540.8	39.3
3829	MEASURING, CONTROLLING DEVICES, NEC . .	49.3	14.8	34.5	320.0	277.0	89	83	24.6	256.7	394.9	601.4	14.7

See footnotes at end of table.

Table 4. Selected Statistics by Major Industry Group and Industry: 1977 and 1972-Con.

Code	Industry group and industry	1977									
		Companies (number)	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Value of ship- ments ¹ (million dollars)
			Total (number)	With 20 employees or more (number)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (million)	Wages (million dollars)		
3832	OPTICAL INSTRUMENTS AND LENSES . . .	515	545	199	30.0	421.2	16.9	33.6	188.0	897.4	1 330.4
384	MEDICAL INSTRUMENTS, SUPPLIES. . .	2 058	2 355	679	113.5	1 318.8	76.8	149.2	711.8	3 261.9	5 217.0
3841	SURGICAL AND MEDICAL INSTRUMENTS . .	575	651	238	43.2	491.4	29.2	57.5	261.4	1 208.8	1 833.1
3842	SURGICAL APPLIANCES AND SUPPLIES . .	1 017	1 154	322	53.9	624.1	36.8	70.5	345.6	1 594.5	2 597.3
3843	DENTAL EQUIPMENT AND SUPPLIES. . . .	507	550	119	16.3	203.3	10.7	21.2	104.8	458.6	786.7
3851	OPHTHALMIC GOODS	593	634	155	30.0	314.1	21.7	43.1	188.4	656.2	971.8
3861	PHOTOGRAPHIC EQUIP. AND SUPPLIES . .	702	780	265	111.7	1 899.6	61.7	119.4	886.5	6 732.4	9 946.9
3873	WATCHES, CLOCKS, AND WATCHCASES. . .	283	302	112	31.5	316.6	24.0	46.3	199.4	684.5	1 594.7
39	MISC. MANUFACTURING INDUSTRIES. . .	16 550	17 259	3 794	440.7	4 406.4	338.7	626.7	2 745.3	10 291.0	19 150.7
391	JEWELRY, SILVER AND PLATED WARE. . .	3 053	3 118	564	61.3	637.6	44.3	81.2	372.8	1 448.5	3 249.3
3911	JEWELRY, PRECIOUS METAL.	2 165	2 206	405	42.1	432.0	29.2	53.3	241.4	979.8	2 107.0
3914	SILVERWARE AND PLATED WARE	247	258	67	10.8	119.8	8.3	15.7	80.2	255.1	457.0
3915	JEWELERS' MATS., LAPIDARY WORK	650	654	92	8.3	85.9	6.8	12.2	51.3	213.6	685.2
3931	MUSICAL INSTRUMENTS.	400	450	127	25.2	252.7	20.6	38.2	178.2	488.2	924.9
394	TOYS AND SPORTING GOODS.	2 713	2 910	835	119.4	1 111.8	93.3	172.4	697.0	2 999.8	5 485.0
3942	DOLLS.	223	231	88	9.1	65.3	8.0	13.3	43.5	181.6	340.2
3944	GAMES, TOYS, CHILDREN'S VEHICLES . .	754	801	251	53.1	520.6	39.2	73.2	295.0	1 544.6	2 719.7
3949	SPORTING AND ATHLETIC GOODS, NEC . .	1 757	1 878	496	57.2	525.8	46.1	85.9	358.6	1 273.6	2 425.1
395	PENS, OFFICE AND ART GOODS	913	987	261	31.8	331.1	23.3	45.8	203.2	867.6	1 538.4
3951	PENS AND MECHANICAL PENCILS	133	141	78	13.2	135.6	10.4	20.6	92.9	419.8	669.8
3952	LEAD PENCILS AND ART GOODS	127	134	46	6.6	63.1	4.7	9.2	37.6	145.5	275.9
3953	MARKING DEVICES.	583	612	86	7.4	78.7	4.7	9.1	39.6	160.0	248.7
3955	CARBON PAPER AND INKED RIBBONS	78	100	51	4.6	53.7	3.4	6.9	33.1	142.4	344.0
396	COSTUME JEWELRY AND NOTIONS.	1 458	1 514	467	51.0	450.5	41.6	75.4	293.0	1 002.0	1 766.2
3961	COSTUME JEWELRY.	837	847	236	25.0	215.9	20.8	36.1	136.1	485.1	816.6
3962	ARTIFICIAL FLOWERS	222	233	67	5.0	38.2	4.2	7.1	25.2	91.5	180.2
3963	BUTTONS.	150	159	47	3.2	30.8	2.6	4.7	20.0	50.0	95.2
3964	NEEDLES, PINS, AND FASTENERS	249	275	117	17.7	165.6	14.0	27.5	111.8	375.4	674.2
399	MISCELLANEOUS MANUFACTURES	8 073	8 280	1 540	152.0	1 622.6	115.7	213.7	1 001.0	3 484.8	6 186.9
3991	BROOMS AND BRUSHES	391	409	153	16.5	163.8	12.7	24.0	101.1	353.6	673.1
3993	SIGNS AND ADVERTISING DISPLAYS	3 373	3 468	627	49.7	566.6	36.8	69.2	343.1	1 060.9	1 738.7
3995	BURIAL CASKETS	376	406	133	12.0	129.7	9.3	17.8	79.7	264.2	505.9
3996	HARD SURFACE FLOOR COVERINGS	20	21	13	6.4	93.5	5.0	10.4	68.6	321.3	607.2
3999	MANUFACTURING INDUSTRIES, NEC. . . .	3 921	3 976	614	67.3	669.1	52.0	92.3	408.5	1 484.7	2 662.0
60	ADMINISTRATIVE AND AUXILIARY ¹⁰ . .	-	9 171	4 856	1 074.2	21 981.2	-	-	-	-	-

See footnotes at end of table.

Table 4. Selected Statistics by Major Industry Group and Industry: 1977 and 1972—Con.

Code	Industry group and industry	1977--Continued						1972					
		New capital expenditures ⁴			Inventories		Ratios		All employees		Value added by manu- facture (million dollars)	Value of ship- ments ¹ (million dollars)	New capital expend- itures (million dollars)
		Total (million dollars)	Struc- tures and additions to plant (million dollars)	Machinery and equipment (million dollars)	End of year (million dollars)	Beginning of year (million dollars)	Spe- cial- iza- tion (per- cent)	Cov- er- age (per- cent)	Num- ber (1,000)	Payroll (million dollars)			
3832	OPTICAL INSTRUMENTS AND LENSES . . .	51.3	18.4	32.9	302.9	271.8	84	82	18.8	193.3	384.3	538.4	12.7
384	MEDICAL INSTRUMENTS, SUPPLIES. . .	172.0	41.6	130.5	1 038.6	941.6	(NA)	(NA)	90.8	757.7	1 821.3	2 824.5	104.4
3841	SURGICAL AND MEDICAL INSTRUMENTS . . .	87.2	21.7	65.5	360.7	322.5	88	80	34.5	282.4	630.0	961.8	42.0
3842	SURGICAL APPLIANCES AND SUPPLIES . . .	68.6	16.2	52.5	503.7	454.7	87	85	43.9	365.3	929.0	1 453.5	47.5
3843	DENTAL EQUIPMENT AND SUPPLIES. . . .	16.2	3.7	12.5	174.1	164.3	92	98	12.4	110.0	262.3	409.2	14.9
3851	OPHTHALMIC GOODS	44.1	13.2	30.9	244.9	224.6	92	98	26.6	183.4	416.3	568.3	17.4
3861	PHOTOGRAPHIC EQUIP. AND SUPPLIES . . .	322.7	69.2	253.5	1 503.0	1 428.2	95	95	96.0	1 119.7	4 087.9	5 623.9	202.9
3873	WATCHES, CLOCKS, AND WATCHCASES. . .	23.2	5.4	17.9	271.7	271.2	91	95	30.8	230.3	466.0	937.2	18.8
39	MISC. MANUFACTUR'G INDUSTRIES. . .	473.6	112.1	361.5	3 614.2	3 309.0	(NA)	(NA)	445.6	3 179.8	6 768.7	12 173.2	313.6
391	JEWELRY, SILVER AND PLATED WARE. . .	39.6	10.1	29.4	752.5	670.8	(NA)	(NA)	53.2	424.5	850.8	1 812.5	21.9
3911	JEWELRY, PRECIOUS METAL.	25.6	7.9	17.8	489.8	437.4	92	97	32.6	267.2	536.0	1 124.6	10.3
3914	SILVERWARE AND PLATED WARE	8.0	.7	7.3	142.8	136.8	93	98	13.1	106.4	206.8	377.4	9.8
3915	JEWELERS' MATS., LAPIDARY WORK	5.9	1.6	4.4	119.9	96.5	96	89	8.0	55.7	116.4	323.3	5.3
3931	MUSICAL INSTRUMENTS.	13.8	2.7	11.2	243.2	245.4	(NA)	(NA)	24.5	173.4	339.3	617.5	10.6
394	TOYS AND SPORTING GOODS.	147.6	33.2	114.4	1 079.2	976.0	(NA)	(NA)	132.7	880.9	1 999.3	3 662.6	121.2
3942	DOLLS.	6.4	1.4	5.0	62.5	46.6	94	59	10.2	54.0	98.3	199.1	1.7
3944	GAMES, TOYS, CHILDREN'S VEHICLES . . .	78.5	19.5	58.9	437.7	383.3	86	93	61.5	421.0	980.6	1 734.3	72.7
3949	SPORTING AND ATHLETIC GOODS, NEC . . .	62.7	12.3	50.4	579.1	546.1	95	94	61.0	405.9	920.4	1 729.2	46.7
395	PENS, OFFICE AND ART GOODS	55.3	12.6	42.7	276.1	248.4	(NA)	(NA)	31.7	244.3	556.8	926.7	19.8
3951	PENS AND MECHANICAL PENCILS	32.8	9.1	23.7	123.1	108.6	85	94	10.9	81.9	213.7	310.5	7.6
3952	LEAD PENCILS AND ART GOODS	10.8	1.8	9.0	70.9	64.2	85	79	7.1	50.0	108.2	198.8	3.9
3953	MARKING DEVICES.	5.5	.8	4.7	34.3	30.8	85	88	8.1	63.2	121.5	180.0	2.6
3955	CARBON PAPER AND INKED RIBBONS	6.2	.9	5.3	47.8	44.7	96	64	5.7	49.1	113.4	237.5	5.7
396	COSTUME JEWELRY AND NOTIONS.	44.0	12.0	32.0	274.6	261.1	(NA)	(NA)	50.4	323.1	719.6	1 248.7	33.5
3961	COSTUME JEWELRY.	17.6	7.8	9.8	119.6	110.6	92	89	21.4	132.1	275.7	471.6	6.7
3962	ARTIFICIAL FLOWERS	3.0	1.0	2.0	29.5	27.2	98	91	4.8	26.7	57.5	108.7	3.3
3963	BUTTONS.	1.4	.3	1.2	13.9	17.6	98	82	4.0	26.7	51.8	93.7	2.3
3964	NEEDLES, PINS, AND FASTENERS	22.0	3.0	19.0	111.6	105.8	92	95	20.2	137.7	334.5	574.7	21.2
399	MISCELLANEOUS MANUFACTURES	173.3	41.4	131.8	988.6	907.3	(NA)	(NA)	153.0	1 133.6	2 302.8	3 905.2	106.6
3991	BROOMS AND BRUSHES	15.7	2.4	13.3	129.9	119.9	91	89	17.5	118.5	235.5	438.3	13.0
3993	SIGNS AND ADVERTISING DISPLAYS	43.0	13.5	29.5	210.8	190.0	98	97	49.8	415.9	747.7	1 198.1	30.6
3995	BURIAL CASKETS	16.3	2.2	14.2	81.8	78.2	99	98	14.8	109.3	210.3	391.9	8.8
3996	HARD SURFACE FLOOR COVERINGS	16.9	1.9	15.1	84.9	76.2	92	98	5.8	59.4	212.0	342.3	14.0
3999	MANUFACTURING INDUSTRIES, NEC.	81.3	21.5	59.8	481.1	442.9	91	90	65.1	430.5	897.2	1 534.7	40.2
--	ADMINISTRATIVE AND AUXILIARY ¹⁰ . . .	-	-	-	-	-	-	-	994.3	13 772.3	-	-	-

Note: 1977 and 1972 payroll and sales data for small establishments (generally single-unit companies with less than 10 employees) were obtained from administrative records of other government agencies instead of from a census report form. These data were then used in conjunction with industry averages to estimate the balance of the items shown in the table for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time the data were tabulated.

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (X) Not applicable.

¹The total value of shipments for industry groups (2- and 3-digit) and a few individual industries (4-digit) includes extensive duplication arising from shipments between establishments in the same industry classification.

²Establishments in this industry reported value of production instead of value of shipments. Consequently, the formula for computing value added by manufacture was modified to exclude any change in finished product inventories between the beginning and end of the year.

³Value added data include government-owned, contractor-operated plants which were estimated based upon averages reported for commercial establishments in prior years. Cost of materials data exclude government-owned materials furnished to government-owned, contractor-operated plants and include fuel and electricity purchased by or for the establishments. Value of shipments data include a calculated value of shipments for government-owned, contractor-operated plants comprised of adjusted value added plus the cost of fuels and electric energy. New capital expenditures include expenditures for plants under construction but not in operation. Capital expenditures of government-owned, contractor-operated plants are excluded from the totals for the industry.

⁴Includes expenditures for plants in operation and for plants under construction but not yet in operation.

⁵Government-owned, privately-operated establishments did not enter into the calculation of "primary product specialization ratio" or "coverage ratio" as all other dollar receipts for these establishments were included in "miscellaneous receipts."

⁶Minimum percentage; exact percentage withheld to avoid disclosing operations of individual companies.

⁷The value of shipments and cost of materials for this industry include substantial duplication; therefore, the specialization ratios and coverage ratios were not calculated.

⁸Relationships are not meaningful because of the predominance of receipts for contract and commission work on materials owned by others. Such receipts are treated as primary products for this industry.

⁹Establishments in this industry were requested to report value of work done instead of value of shipments. Consequently, the formula for computing value added by manufacture was not adjusted for any inventory change between the beginning and end of the year.

¹⁰In 1977 and 1972, in addition to the employment and payroll reported for operating manufacturing establishments, manufacturing concerns reported separately for administrative offices or auxiliary units which serve the manufacturing establishments of a company (e.g., storage warehouses, power plants, research laboratories, garages, repair shops, etc.) rather than the general public. Separate reports were obtained if these units were at different general locations from the establishments served or if they serviced more than one manufacturing establishment. The figures shown for these units do not represent a separate industry but rather a balancing total for all manufacturing industries.



Nebraska

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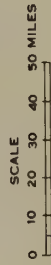
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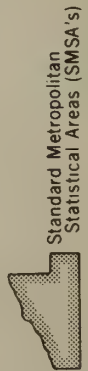
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NEBRASKA



LEGEND

- Places of 100,000 or more inhabitants
- Places of 50,000 to 100,000 inhabitants
- Places of 25,000 to 50,000 inhabitants outside SMSA's



SUMMARY OF FINDINGS

In 1977, 87.7 thousand persons were employed in Nebraska's manufacturing establishments. This figure represented an increase of 3 percent from the 1972 figure of 84.9 thousand workers.

The total value added by manufacture for the State amounted to \$2,867 million in 1977, an increase of approximately 65 percent from the 1972 figure of \$1,733 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were food and kindred products; machinery, except electrical; electric and electronic equipment; and fabricated metal products. They accounted for approximately 57 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 60 percent of the State's employment.

The most important counties in the State ranked by employment were Douglas, Lancaster, Platter, and Hall. They accounted for approximately 65 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 64 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 3 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Nebraska:						
1977.....	87.7	1,075.4	85.0	1,032.2	2.7	43.2
1972.....	84.9	704.2	83.3	685.1	1.6	19.1
1967.....	77.0	475.9	75.9	465.6	1.1	10.3
1963.....	64.9	348.0	63.8	339.7	1.1	8.3
STANDARD METROPOLITAN STATISTICAL AREAS						
Lincoln:						
1977.....	13.1	154.4	12.9	150.8	.2	3.6
1972.....	11.6	96.3	11.5	95.2	.1	1.1
1967.....	9.5	57.9	9.3	56.0	.2	1.9
1963.....	9.1	45.6	8.9	44.8	.2	.8
Omaha, Nebr.-Iowa:						
1977.....	34.7	457.3	33.3	435.0	1.4	22.3
1972.....	38.0	341.1	37.0	329.7	1.0	11.4
1967.....	36.6	249.4	35.9	242.7	.7	6.7
1963.....	35.1	206.8	34.3	200.2	.7	6.6
Sioux City, Iowa-Nebr.:						
1977.....	9.6	123.7	8.8	109.0	.8	14.7
1972.....	10.5	87.7	(D)	(D)	(D)	(D)
1967.....	9.2	57.8	9.2	57.4	(Z)	.4
1963.....	7.5	41.5	(D)	(D)	(D)	(D)

(D) Withheld to avoid disclosing operations of individual companies. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers										Comparative indexes and U.S. employment			
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	Index of State em- ploy- ment change (1977= 100)	United States				
														Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)			
	NEBRASKA																	
1977 CENSUS.	1 965	626	87.7	1 075.4	62.8	124.0	680.9	2 867.1	5 864.0	8 713.4	175.1	.45	100	100	19 596.9			
1976 ASM....	(NA)	(NA)	87.8	986.6	63.1	125.0	634.5	2 692.1	6 133.9	8 773.3	167.5	.47	100	96	18 753.0			
1975 ASM....	(NA)	(NA)	87.3	890.8	62.5	122.7	579.1	2 384.5	6 007.9	8 393.4	160.8	.48	100	94	18 302.2			
1974 ASM....	(NA)	(NA)	90.4	835.1	66.6	132.7	555.9	2 253.0	5 754.0	7 949.3	143.3	.46	103	102	19 844.8			
1973 ASM....	(NA)	(NA)	88.6	769.1	66.3	133.0	516.5	1 989.8	5 024.0	6 954.9	108.5	.45	101	102	19 897.9			
1972 CENSUS.	1 723	598	84.9	704.2	63.2	127.6	469.2	1 733.4	4 220.5	5 898.4	102.3	.45	97	98	19 028.7			
1971 ASM....	(NA)	(NA)	80.2	618.0	58.7	119.2	411.2	1 594.1	3 234.6	4 826.6	86.5	.44	91	94	18 363.1			
1970 ASM....	(NA)	(NA)	81.3	581.2	60.0	119.8	385.8	1 497.0	2 946.7	4 419.4	83.0	.42	93	99	19 217.2			
1969 ASM....	(NA)	(NA)	84.0	576.2	64.3	129.4	398.1	1 415.6	3 047.3	4 440.5	94.8	.42	96	103	20 035.5			
1968 ASM....	(NA)	(NA)	79.6	513.4	59.9	119.4	348.0	1 252.6	2 642.8	3 856.7	68.2	.41	91	100	19 527.6			
1967 CENSUS.	1 675	525	77.0	475.9	58.4	119.2	325.0	1 150.0	2 402.7	3 531.7	71.4	.40	88	99	19 323.2			
1966 ASM....	(NA)	(NA)	71.4	419.4	53.1	110.5	283.6	992.9	2 170.4	3 131.4	75.5	.38	81	98	19 024.5			
1965 ASM....	(NA)	(NA)	65.9	376.4	47.9	100.5	248.5	870.3	1 874.5	2 742.6	57.3	.37	75	92	18 010.2			
1964 ASM....	(NA)	(NA)	65.4	365.3	47.1	98.1	243.5	870.5	1 747.6	2 607.9	50.2	.38	75	89	17 268.5			
1963 CENSUS.	1 611	474	64.9	348.0	47.0	96.7	228.5	746.6	(NA)	(NA)	46.1	.38	74	87	16 958.4			

(NA) Not available.

¹In annual survey of manufactures (ASM) years, data are estimated based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
NEBRASKA									
1977 CENSUS.....	12 267	72	1 975	5.49	67	80	32 704	38	23.12
1976 ASM.....	11 237	72	1 981	5.08	70	81	30 662	37	21.54
1975 ASM.....	10 204	72	1 963	4.72	72	82	27 314	37	19.43
1974 ASM.....	9 238	74	1 992	4.19	72	83	24 923	37	16.98
1973 ASM.....	8 681	75	2 006	3.88	72	83	22 458	39	14.96
1972 CENSUS.....	8 294	74	2 019	3.68	72	83	20 417	41	13.58
1971 ASM.....	7 706	73	2 031	3.45	67	80	19 877	39	13.37
1970 ASM.....	7 149	74	1 997	3.22	67	80	18 413	39	12.50
1969 ASM.....	6 860	77	2 012	3.08	69	82	16 852	41	10.94
1968 ASM.....	6 450	75	1 993	2.91	69	82	15 736	41	10.49
1967 CENSUS.....	6 181	76	2 041	2.73	68	82	14 935	41	9.65
1966 ASM.....	5 874	74	2 081	2.57	69	83	13 906	42	8.99
1965 ASM.....	5 712	73	2 098	2.47	68	82	13 206	43	8.66
1964 ASM.....	5 586	72	2 083	2.48	67	81	13 310	42	8.87
1963 CENSUS.....	5 362	72	2 057	2.36	(NA)	(NA)	11 504	47	7.72

Note: For qualifications to data, see footnotes on table 2a.

(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹ -----	number ----	1 965	1 723
With 1 to 19 employees -----	do -----	1 399	1 125
With 20 to 99 employees -----	do -----	436	425
With 100 employees or more -----	do -----	190	173
All employees, average for year ¹ -----	1,000 -----	87.7	84.9
Payroll for year, all employees ¹ -----	mil. dollars --	1 075.4	704.2
Production workers:			
Average for year -----	1,000 -----	62.8	63.2
March -----	do -----	61.4	60.5
May -----	do -----	62.8	62.0
August -----	do -----	63.5	64.6
November -----	do -----	63.2	65.5
Hours -----	millions ----	124.0	127.6
January to March -----	do -----	30.3	30.4
April to June -----	do -----	31.3	31.9
July to September -----	do -----	31.1	32.1
October to December -----	do -----	31.3	33.1
Wages -----	mil. dollars --	680.9	469.2
Cost of materials, etc. ² -----	do -----	5 864.0	4 220.5
Materials, parts, containers, etc., consumed -----	do -----	5 259.1	3 997.9
Resales -----	do -----	454.7	162.9
Fuels consumed -----	do -----	64.0	25.0
Purchased electric energy -----	do -----	53.1	22.3
Contract work -----	do -----	33.1	12.5
Value of shipments, including resales ² -----	do -----	8 713.4	5 898.4
Value of resales -----	do -----	528.4	185.3
Value added by manufacture -----	do -----	2 867.1	1 733.4
Manufacturers' inventories:			
Beginning of year -----	do -----	863.7	439.2
Finished products -----	do -----	353.7	189.5
Work in process -----	do -----	174.8	95.9
Materials, supplies, fuel, etc. -----	do -----	335.2	153.9
End of year -----	do -----	896.3	501.3
Finished products -----	do -----	359.9	215.8
Work in process -----	do -----	187.0	118.7
Materials, supplies, fuel, etc. -----	do -----	349.4	166.8
Capital expenditures for plant and equipment -----	do -----	201.9	108.9
New capital expenditures -----	do -----	175.1	102.3
New buildings and other structures -----	do -----	41.0	27.1
New machinery and equipment -----	do -----	134.1	75.2
Used capital expenditures -----	do -----	26.8	6.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Including central administrative offices and auxiliaries (for definition, see appendix B).

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

[For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F]

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	47.0	5
Beginning of year.....	1,688.7	1	Buildings and other structures.....	(10.2)	18
New capital expenditures.....	187.5	11	Machinery and equipment.....	36.7	3
Used capital expenditures.....	27.1	5			
Retirements.....	59.2	3	Depreciation charges during 1977:		
End of year.....	1,844.3	1	Total.....	113.0	2
Buildings and other structures:			Buildings and other structures.....	21.4	4
Beginning of year.....	514.8	3	Machinery and equipment.....	91.6	2
New capital expenditures.....	42.0	11			
Used capital expenditures.....	(3.2)	25	Supplemental labor costs:		
Retirements.....	12.9	7	Total.....	188.3	1
End of year.....	547.1	3	Legal costs.....	77.0	2
Machinery and equipment:			Voluntary costs.....	111.2	2
Beginning of year.....	1,173.9	2			
New capital expenditures.....	145.6	9	Purchased services:		
Automobiles, trucks, etc., for highway use...	6.6	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	1.3	(NA)	Buildings and other structures.....	(5.5)	19
All other.....	107.7	(NA)	Response coverage ratio (percent).....	61	(X)
New machinery and equipment, n.s.k.....	29.9	(NA)	Machinery.....	(27.6)	16
Used capital expenditures.....	23.9	4	Response coverage ratio (percent).....	63	(X)
Retirements.....	46.3	3	Cost of purchased communication services.....	(11.5)	43
End of year.....	1,297.1	1	Response coverage ratio (percent).....	61	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by counting ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

Figures in parentheses have standard errors of 15 percent or more.

(NA) Not available.

n.s.k. Not specified by kind.

(X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972		
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
Nebraska - - - - -	-	1 965	626	87.7	1 075.4	62.8	124.0	580.9	2 867.1	5 864.0	8 713.4	175.1	84.9	1 733.4
STANDARD METROPOLITAN STATISTICAL AREAS														
Lincoln - - - - -	-	217	75	13.1	154.4	9.3	17.6	94.2	400.0	651.9	1 060.4	21.1	11.6	239.8
Omaha, Nebr.-Iowa	-	680	243	34.7	457.3	24.7	48.0	288.3	1 217.4	2 616.1	3 835.0	82.6	38.0	846.3
Portion in Iowa - -	-	82	24	3.8	40.2	2.9	5.7	27.4	87.9	490.9	575.2	6.7	3.3	75.4
Portion in Nebraska	E1	598	219	30.9	417.1	21.7	42.3	260.9	1 129.5	2 125.2	3 259.8	75.9	34.7	770.9
Sioux City, Iowa-Nebr.	E3	165	62	9.6	123.7	6.5	12.8	71.2	285.4	1 216.0	1 496.1	38.0	10.5	196.2
Portion in Iowa - -	-	144	54	7.9	97.8	5.9	11.4	64.4	260.0	915.5	1 164.1	36.2	(D)	(D)
Portion in Nebraska -	E4	21	8	1.6	25.9	0.5	1.4	6.9	25.4	300.5	331.9	1.8	(D)	(D)
COUNTIES														
Adams - - - - -	-	70	21	2.1	25.3	1.5	3.1	14.9	70.8	87.7	156.3	3.0	2.0	34.4
Antelope - - - - -	-	12	2	0.2	1.6	0.1	0.2	1.0	3.8	9.3	13.0	0.3	(D)	(D)
Arthur - - - - -	E7	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Blaine - - - - -	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Boone - - - - -	E0	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Box Butte - - - - -	-	11	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	1.5
Boyd - - - - -	E9	4	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Brown - - - - -	E0	4	-	(Z)	0.3	(Z)	(Z)	0.2	0.6	0.6	1.1	(Z)	(Z)	(NA)
Buffalo - - - - -	-	51	17	2.5	29.4	2.0	4.3	21.9	77.3	116.2	189.9	4.6	1.9	35.6
Burt - - - - -	E1	11	1	0.1	1.3	0.1	0.2	0.9	3.6	6.2	9.8	0.2	0.2	2.5
Butler - - - - -	-	9	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.2
Cass - - - - -	-	12	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	13.0
Cedar - - - - -	-	12	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	0.8
Chase - - - - -	E3	7	-	(Z)	0.4	(Z)	(Z)	0.2	0.9	0.8	1.7	(Z)	(Z)	(NA)
Cherry - - - - -	E3	9	-	(Z)	0.3	(Z)	(Z)	0.2	1.0	0.8	1.8	(Z)	(Z)	(NA)
Cheyenne - - - - -	-	11	4	0.4	2.8	0.3	0.5	2.0	6.3	5.1	11.6	0.6	0.2	1.6
Clay - - - - -	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Colfax - - - - -	-	14	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cuming - - - - -	-	12	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Custer - - - - -	-	15	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dakota - - - - -	-	21	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dawes - - - - -	E3	10	3	0.1	0.5	0.1	0.1	0.3	1.0	0.8	1.8	0.1	(Z)	(NA)
Dawson - - - - -	-	49	21	2.8	33.3	2.2	4.9	24.0	81.7	205.2	276.8	5.4	1.9	46.6
Deuel - - - - -	-	4	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dixon - - - - -	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dodge - - - - -	-	65	26	3.1	42.5	2.4	4.5	31.4	112.8	358.0	468.3	2.7	2.9	54.0
Douglas - - - - -	-	560	212	30.3	408.2	21.3	41.4	256.3	1 097.5	2 085.2	3 188.1	(D)	34.3	762.4
Dundy - - - - -	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Fillmore - - - - -	E5	8	-	(Z)	0.4	(Z)	0.1	0.2	0.8	2.4	3.2	(Z)	(Z)	(NA)
Franklin - - - - -	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Frontier - - - - -	E7	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Furnas - - - - -	E3	16	2	0.1	1.0	0.1	0.1	0.6	2.3	6.3	8.5	0.2	(D)	(D)
Gage - - - - -	-	22	12	1.2	14.1	0.9	1.7	8.5	50.7	42.1	89.9	3.0	1.2	28.1
Garden - - - - -	-	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Garfield - - - - -	E0	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Gosper - - - - -	E0	4	-	(Z)	0.1	(Z)	(Z)	0.1	0.2	0.1	0.3	(Z)	(Z)	(NA)
Grant - - - - -	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Greeley - - - - -	E7	4	-	(Z)	(Z)	(Z)	(Z)	(Z)	0.1	0.2	0.3	(Z)	(Z)	(NA)
Hall - - - - -	-	73	29	3.8	46.8	2.7	5.2	28.4	148.2	138.7	284.6	6.1	4.4	71.3
Hamilton - - - - -	E7	12	2	0.3	3.3	0.2	0.5	2.0	7.5	18.2	25.7	0.2	0.2	4.2
Harlan - - - - -	-	4	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	0.7
Hayes - - - - -	E0	3	-	(D)	(D)	(D)	(D)	(D)	(D)	0.1	0.1	(D)	(D)	(D)
Hitchcock - - - - -	-	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Holt - - - - -	-	12	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hooker - - - - -	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Howard - - - - -	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jefferson - - - - -	-	13	5	0.5	4.8	0.4	0.9	3.4	10.1	20.5	30.3	1.2	0.3	3.1
Johnson - - - - -	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kearney - - - - -	-	10	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Keith - - - - -	-	16	3	0.8	7.2	0.5	0.9	3.3	17.9	5.5	22.9	0.4	0.7	10.1
Keya Paha - - - - -	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kimball - - - - -	E3	11	2	0.1	0.9	0.1	0.1	0.5	2.2	1.3	3.5	0.2	0.1	1.1
Knox - - - - -	E2	15	-	(Z)	0.4	(Z)	(Z)	0.2	0.2	2.4	2.6	0.1	(Z)	(NA)
Lancaster - - - - -	-	217	75	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11.6	239.8
Lincoln - - - - -	E3	25	5	0.4	4.5	0.3	0.5	2.4	9.7	20.9	30.6	1.2	0.6	7.8
Logan - - - - -	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Madison - - - - -	-	52	20	2.7	31.4	2.0	4.1	20.9	104.0	187.9	291.8	7.7	1.9	35.1
Merrick - - - - -	E1	9	1	0.2	1.4	0.1	0.2	0.8	2.6	3.9	6.5	0.1	(Z)	(NA)
Morrill - - - - -	-	8	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nance - - - - -	E0	5	-	(Z)	0.1	(Z)	(Z)	(Z)	0.1	0.2	0.3	(Z)	(D)	(D)
Nemaha - - - - -	-	9	4	0.3	3.3	0.3	0.5	2.4	12.0	11.2	22.8	0.2	0.4	4.2
Nuckolls - - - - -	-	3	3	0.3	4.1	0.3	0.5	3.2	12.8	23.1	35.6	(D)	(D)	(D)
Otoe - - - - -	-	18	11	1.0	9.1	0.8	1.6	7.4	31.4	38.3	69.9	(D)	0.8	20.7
Pawnee - - - - -	E1	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Perkins - - - - -	-	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Phelps - - - - -	-	13	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pierce - - - - -	-	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	1.0
Platte - - - - -	-	51	21	4.6	48.4	2.8	5.6	26.2	112.7	127.8	237.3	5.2	4.0	64.9
Polk - - - - -	E7	5	1	0.1	0.3	(Z)	(Z)	0.1	0.6	1.2	1.8	0.1	(Z)	(NA)
Red Willow - - - - -	-	15	7	0.8	7.7	0.7	1.2	5.6	18.7	19.6	37.4	1.5	0.6	10.5
Richardson - - - - -	-	16	5	0.4	4.3	0.3	0.5	2.5	25.3	15.9	41.1	0.3	0.4	5.3
Rock - - - - -	E3	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Saline - - - - -	-	16	8	1.7	20.5	1.5	3.2	17.0	69.2	188.2	256.2	4.0	1.0	31.7

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E¹	1977										1972			
		All establishments²		All employees²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als³ (million dollars)	Value of ship- ments³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)							
COUNTIES—Con.															
Sarpy - - - - -	-	38	7	0.6	8.9	0.4	0.9	4.6	32.0	40.0	71.7	(D)	0.4	8.5	
Saunders - - - - -	-	22	7	0.3	3.8	0.3	0.5	2.6	9.3	37.8	46.7	0.3	0.3	5.8	
Scotts Bluff - - - - -	-	59	21	2.8	35.1	1.8	3.6	18.6	77.7	175.0	252.6	3.2	2.4	53.9	
Seward - - - - -	-	14	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Sheridan - - - - -	E1	11	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	1.3	
Sherman - - - - -	E1	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Stanton - - - - -	E1	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)	
Thayer - - - - -	-	11	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.6	
Thomas - - - - -	-	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Thurston - - - - -	E1	12	3	0.2	2.6	0.2	0.4	1.9	6.7	7.2	14.0	0.3	0.2	3.2	
Valley - - - - -	-	6	2	0.1	0.6	(Z)	0.1	0.4	0.8	2.0	2.9	(D)	0.1	0.5	
Washington - - - - -	E2	21	3	0.3	3.5	0.3	0.5	2.4	6.8	15.2	21.9	0.3	0.7	7.5	
Wayne - - - - -	E3	9	2	0.1	0.6	0.1	0.1	0.4	1.1	1.0	2.1	0.1	0.1	0.7	
Webster - - - - -	E4	5	-	(Z)	0.1	(Z)	(Z)	0.1	0.3	0.3	0.6	(Z)	(D)	(D)	
York - - - - -	-	30	9	0.7	8.6	0.5	1.1	5.3	18.2	124.9	142.7	1.1	0.5	11.9	
CITIES															
Alliance - - - - -	-	10	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Beatrice - - - - -	-	20	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Columbus - - - - -	-	41	17	3.2	34.0	1.9	3.9	17.5	74.5	76.9	150.5	(D)	2.9	43.6	
Cozad - - - - -	-	13	9	1.3	14.1	1.1	2.4	11.6	41.5	90.1	126.9	3.0	1.1	35.5	
Crete - - - - -	-	9	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Fremont - - - - -	-	45	21	2.7	39.3	2.1	4.0	29.1	104.7	339.4	441.9	1.9	2.5	47.9	
Gering - - - - -	-	15	5	1.5	20.0	0.8	1.6	9.0	50.4	99.2	149.8	1.6	1.2	31.5	
Grand Island - - - - -	-	54	23	3.0	37.6	2.1	4.2	24.3	137.9	116.9	252.7	4.6	1.8	26.6	
Hastings - - - - -	-	62	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	32.1	
Holdrege - - - - -	-	10	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Kearney - - - - -	-	28	8	1.3	13.5	1.1	2.2	9.6	33.9	33.4	66.2	2.5	1.1	14.1	
Lexington - - - - -	-	17	8	1.2	15.6	0.8	2.0	10.2	33.5	97.8	126.2	1.8	(NA)	(NA)	
Lincoln - - - - -	-	203	68	11.6	138.1	8.1	15.4	83.6	369.7	405.9	770.7	14.3	(D)	(D)	
McCook - - - - -	-	14	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	10.5	
Nebraska City - - - - -	-	17	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Norfolk - - - - -	-	28	13	1.0	11.9	0.7	1.4	7.0	34.9	117.6	151.3	2.7	1.4	23.8	
Ogallala - - - - -	-	13	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Omaha - - - - -	-	503	190	25.9	347.3	18.6	36.4	225.9	978.9	1 980.6	2 962.1	57.6	32.1	723.9	
Scottsbluff - - - - -	-	31	12	0.9	10.0	0.7	1.5	7.0	17.1	54.7	72.0	1.1	0.8	13.5	
Seward - - - - -	-	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
York - - - - -	-	19	7	0.5	6.5	0.4	0.9	4.3	13.3	115.8	128.2	0.4	(NA)	(NA)	

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expen- ditures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	All Industries -----	-	1 965	626	87.7	1 075.4	62.8	124.0	680.9	2 867.1	5 864.0	8 713.4	175.1	84.9	1 733.4

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972		
			E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
				Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
20	Food and kindred products -----	-	393	184	21.5	277.1	16.1	33.4	195.3	829.7	3 706.5	4 542.0	53.3	25.4	581.0	
201	Meat products -----	-	99	56	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12.4	257.4	
2011	Meat packing plants -----	-	69	38	6.5	101.3	5.2	11.2	81.0	221.8	2 282.0	2 501.3	13.0	9.4	219.2	
2013	Sausages and other prepared meats -----	-	20	12	1.2	17.2	1.0	2.0	13.5	33.4	100.5	132.2	3.0	1.1	22.8	
2016	Poultry dressing plants -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
2017	Poultry and egg processing --	-	7	4	1.0	7.8	1.0	2.0	6.7	11.6	40.2	50.3	1.8	EE	(D)	
202	Dairy products -----	-	40	22	1.5	16.4	0.8	1.6	7.9	43.0	166.7	209.1	3.4	2.1	30.0	
2022	Cheese, natural and processed -----	-	12	8	0.4	3.2	0.3	0.5	2.4	12.9	51.8	64.7	0.6	BB	(D)	
2026	Fluid milk -----	-	19	10	0.9	10.6	0.4	0.8	3.8	24.2	74.6	98.5	2.6	EE	(D)	
203	Preserved fruits and vegetables -----	-	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
2037	Frozen fruits and vegetables --	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
2038	Frozen specialties -----	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
204	Grain mill products -----	-	152	45	4.3	58.8	3.2	6.9	41.5	287.4	512.7	797.0	19.8	4.0	149.9	
2041	Flour and other grain mill products -----	-	6	5	0.4	6.3	0.4	0.8	5.3	26.5	112.8	139.6	(D)	0.5	22.7	
2043	Cereal breakfast foods -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
2047	Dog, cat, and other pet food --	-	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
2048	Prepared feeds, n.e.c. -----	-	133	33	2.3	26.8	1.5	3.2	15.3	104.3	265.6	368.4	9.8	2.3	55.7	
205	Bakery products -----	-	19	12	1.5	18.8	0.8	1.7	9.4	46.2	31.3	77.5	1.3	1.5	24.9	
2051	Bread, cake, and related products -----	-	18	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
206	Sugar and confectionery products -----	-	7	7	1.2	11.5	1.1	2.3	9.5	36.4	56.2	91.8	(D)	EE	(D)	
2063	Beet sugar -----	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
2065	Confectionery products -----	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
207	Fats and oils -----	-	20	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	12.1	
2075	Soybean oil mills -----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
2077	Animal and marine fats and oils -----	E1	15	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
208	Beverages -----	E1	26	19	1.1	13.3	0.5	1.0	5.0	37.7	46.7	84.2	3.3	1.0	23.2	
2082	Malt beverages -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
2086	Bottled and canned soft drinks -----	E1	24	18	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
209	Miscellaneous foods and kindred products -----	-	21	7	0.9	10.6	0.5	1.0	4.9	46.2	107.4	153.8	1.1	0.9	28.4	
2098	Macaroni and spaghetti -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
2099	Food preparations, n.e.c. -----	E1	15	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
22	Textile mill products --	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	4.0	
227	Floor covering mills -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
2272	Tufted carpets and rugs -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
23	Apparel and other textile products -----	-	46	15	2.0	12.6	1.7	3.3	10.2	29.8	30.6	59.9	1.3	1.6	18.1	
2311	Men's and boys' suits and coats -----	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
232	Men's and boys' furnishings --	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
2329	Men's and boys' clothing, n.e.c. -----	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
233	Women's and misses' outerwear -----	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
2337	Women's and misses' suits and coats -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
2339	Women's and misses' outerwear, n.e.c. -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
234	Women's and children's undergarments -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
2342	Brassieres and allied garments -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
239	Miscellaneous fabricated textile products -----	E3	25	1	0.2	1.2	0.2	0.3	0.9	2.7	3.0	5.7	(D)	AA	(D)	
24	Lumber and wood products -----	E2	88	26	2.4	24.7	1.9	3.8	16.6	52.5	79.9	130.5	1.8	2.3	30.8	
243	Millwork, plywood, and structural members -----	-	42	9	0.9	9.5	0.7	1.5	6.9	22.3	29.1	50.1	0.9	CC	(D)	
2431	Millwork -----	-	17	5	0.4	4.2	0.4	0.7	3.1	8.6	15.8	23.5	0.6	0.2	2.2	
2434	Wood kitchen cabinets -----	E1	16	3	0.4	4.4	0.3	0.6	3.3	11.9	10.5	21.9	0.3	0.3	4.1	
245	Wood buildings and mobile homes -----	E3	16	12	1.0	9.9	0.8	1.5	6.0	22.1	38.2	60.3	0.4	1.3	20.0	
2451	Mobile homes -----	E4	10	9	0.8	7.8	0.6	1.3	5.0	15.3	31.2	46.4	0.3	EE	(D)	
2452	Prefabricated wood buildings -----	-	6	3	0.2	2.1	0.1	0.2	1.0	6.8	7.0	13.9	0.1	(NA)	(NA)	
249	Miscellaneous wood products --	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972		
			E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
25	Furniture and fixtures -	-		32	12	1.8	18.9	1.4	2.5	11.4	40.3	48.0	57.3	0.8	1.9	31.2
251	Household furniture -	-		15	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	10.3
2511	Wood household furniture -	E1		2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2512	Upholstered household furniture -	-		3	3	0.3	3.4	0.3	0.5	2.1	6.4	4.4	10.9	(Z)	0.4	5.9
2515	Mattresses and bedsprings -	-		7	4	0.2	2.1	0.2	0.3	1.4	4.3	6.5	10.8	0.1	AA	(D)
254	Partitions and fixtures -	-		9	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2541	Wood partitions and fixtures -	-		8	2	0.3	3.6	0.2	0.4	2.3	5.6	3.8	8.7	0.1	0.3	4.8
2542	Metal partitions and fixtures -	-		1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
26	Paper and allied products -	E1		23	13	1.1	13.4	0.9	1.7	8.8	27.0	41.3	58.1	4.5	1.1	18.2
264	Miscellaneous converted paper products -	-		12	4	0.4	4.6	0.3	0.6	3.3	9.0	12.0	20.9	2.2	0.4	6.1
2642	Envelopes -	-		2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2643	Bags, except textile bags -	-		2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
265	Paperboard containers and boxes -	E2		11	9	0.7	8.8	0.6	1.1	5.5	18.0	29.3	47.2	2.3	0.7	12.2
2653	Corrugated and solid fiber boxes -	-		9	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2654	Sanitary food containers -	E0		1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
27	Printing and publishing -	-		417	67	6.3	69.7	4.0	7.0	38.1	150.7	96.6	246.7	7.1	6.0	92.8
2711	Newspapers -	-		164	28	2.8	28.6	1.4	2.3	12.4	71.2	26.4	97.6	3.1	3.0	47.2
273	Books -	-		11	4	0.2	2.2	0.2	0.3	1.2	4.2	1.6	5.8	0.2	(NA)	(NA)
2732	Book printing -	-		7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2741	Miscellaneous publishing -	-		11	1	0.2	2.2	0.1	0.2	0.9	4.0	2.3	6.3	(D)	(NA)	(NA)
275	Commercial printing -	E1		180	25	2.5	29.2	2.0	3.5	19.5	56.7	49.4	105.7	3.1	2.0	31.5
2751	Commercial printing, letterpress -	E1		102	6	0.8	9.2	0.6	1.1	5.8	17.5	13.9	31.3	(D)	0.7	9.8
2752	Commercial printing, lithographic -	E1		74	18	1.6	19.2	1.3	2.2	13.0	38.1	34.5	72.3	2.3	EE	(D)
2761	Manifold business forms -	-		4	4	0.3	3.6	0.2	0.3	1.8	4.8	12.1	16.8	0.3	CC	(D)
279	Printing trade services -	-		15	3	0.2	1.8	0.1	0.2	1.3	3.0	0.8	3.7	0.2	(NA)	(NA)
28	Chemicals and allied products -	-		60	20	2.3	35.2	1.4	2.8	17.7	245.5	198.7	438.9	14.4	2.2	92.7
283	Drugs -	-		16	8	1.0	16.1	0.6	1.1	6.9	91.9	35.9	127.3	1.9	1.1	45.9
2831	Biological products -	-		8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2834	Pharmaceutical preparations -	-		3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
284	Soaps, cleaners, and toilet goods -	-		5	2	0.3	3.6	0.2	0.4	2.3	11.4	12.8	24.0	(D)	BB	(D)
2841	Soap and other detergents -	E1		2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
286	Industrial organic chemicals -	-		2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
287	Agricultural chemicals -	-		21	6	0.6	10.5	0.5	1.0	5.7	115.6	130.0	241.7	9.3	0.6	30.3
2873	Nitrogenous fertilizers -	-		5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	18.7
29	Petroleum and coal products -	-		6	3	0.2	2.4	0.1	0.3	1.6	10.2	42.5	52.2	0.8	0.2	7.3
30	Rubber and miscellaneous plastics products -	-		48	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.7	66.1
3041	Rubber and plastics hose and belting -	-		4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3069	Fabricated rubber products, n.e.c. -	-		1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3079	Miscellaneous plastics products -	E2		42	12	1.0	9.6	0.8	1.6	6.6	21.0	27.6	48.4	3.4	1.3	18.5
32	Stone, clay, and glass products -	-		174	40	2.7	34.2	2.0	3.9	21.7	83.0	88.5	169.7	9.5	2.5	53.7
3241	Cement, hydraulic -	-		2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
325	Structural clay products -	-		3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3251	Brick and structural clay tile -	-		3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
327	Concrete, gypsum, and plaster products -	E1		136	31	1.8	21.9	1.2	2.3	12.3	43.2	61.5	104.5	5.5	1.7	34.7
3271	Concrete block and brick -	E2		11	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3272	Concrete products, n.e.c. -	-		34	8	0.6	7.5	0.4	0.9	4.3	14.4	12.9	27.1	0.8	CC	(D)
3273	Ready-mixed concrete -	E1		89	17	0.9	11.3	0.6	1.1	6.4	23.0	40.0	62.9	4.3	0.7	15.8
329	Miscellaneous nonmetallic mineral products -	-		18	5	0.3	3.7	0.3	0.5	2.5	12.9	9.9	22.3	1.1	(NA)	(NA)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972		
			E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
				Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
33	Primary metal industries -----	-		26	15	2.7	44.8	2.2	4.6	34.3	105.3	368.9	468.7	13.5	2.6	88.3
331	Blast furnace and basic steel products -----	-		2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3312	Blast furnaces and steel mills -----	-		2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
332	Iron and steel foundries -----	-		6	4	0.4	5.4	0.3	0.7	3.6	9.8	5.2	14.7	0.5	CC	(D)
3321	Gray iron foundries -----	-		5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3325	Steel foundries, n.e.c. -----	-		1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
333	Primary nonferrous metals -----	-		1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3332	Primary lead -----	-		1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
335	Nonferrous rolling and drawing -----	-		5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3357	Nonferrous wire drawing and insulating -----	-		3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
336	Nonferrous foundries -----	-		7	4	0.2	2.4	0.2	0.4	1.9	10.9	9.5	20.0	0.2	AA	(D)
3362	Brass, bronze, and copper foundries -----	-		3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
34	Fabricated metal products -----	-		130	53	7.4	93.9	5.3	10.8	57.4	207.4	258.8	462.5	10.2	7.2	115.1
341	Metal cans and shipping containers -----	-		3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3411	Metal cans -----	-		2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
342	Cutlery, hand tools, and hardware -----	-		7	4	0.8	8.2	0.6	1.2	5.8	19.7	13.4	33.2	0.6	BB	(D)
3423	Hand and edge tools, n.e.c. -----	-		5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
343	Plumbing and heating, except electric -----	-		4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3433	Heating equipment, except electric -----	-		4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
344	Fabricated structural metal products -----	-		62	28	3.6	45.9	2.4	4.8	23.6	96.5	149.9	244.1	5.0	2.7	51.3
3441	Fabricated structural metal -----	-		12	7	1.3	15.4	0.9	1.7	7.6	30.6	41.6	71.4	0.7	1.1	18.6
3442	Metal doors, sash, and trim -----	E1		10	4	0.4	3.8	0.2	0.5	1.8	7.1	7.5	14.5	(D)	BB	(D)
3444	Sheet metal work -----	-		16	8	0.9	11.8	0.7	1.4	7.1	32.9	50.4	83.4	1.1	0.9	16.7
3446	Prefabricated metal buildings -----	-		7	4	0.6	7.8	0.3	0.6	3.0	11.9	27.7	38.8	0.9	(NA)	(NA)
3449	Miscellaneous metal work -----	-		3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	9.1
345	Screw machine products, bolts, etc. -----	-		7	3	0.2	1.8	0.1	0.3	1.4	3.3	1.4	4.7	(D)	(NA)	(NA)
3451	Screw machine products -----	-		6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
346	Ordinance and accessories, n.e.c. -----	-		6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	17.9
3469	Ordinance and accessories, n.e.c. -----	-		2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-		28	10	1.4	17.7	1.1	2.1	12.5	39.4	44.4	84.0	1.8	1.3	21.7
3494	Valves and pipe fittings -----	-		8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	10.7
3495	Wire springs -----	-		1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3499	Fabricated metal products, n.e.c. -----	-		8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
35	Machinery, except electrical -----	-		263	63	12.2	160.9	8.2	16.2	95.0	409.5	394.7	794.6	23.3	8.7	192.2
352	Farm and garden machinery -----	-		109	35	7.7	100.8	4.9	9.7	55.9	275.1	291.8	561.7	17.6	4.8	91.9
3523	Farm machinery and equipment -----	-		106	34	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
353	Construction and related machinery -----	-		16	6	0.7	7.9	0.5	1.0	4.8	16.1	14.6	30.6	0.6	BB	(D)
3531	Construction machinery -----	-		6	3	0.5	5.6	0.3	0.7	3.3	11.2	9.7	20.8	0.5	0.3	5.5
354	Metalworking machinery -----	-		20	5	0.3	3.8	0.2	0.3	1.9	7.3	3.2	10.5	0.2	0.2	2.5
355	Special industry machinery -----	E1		9	2	0.2	2.4	0.1	0.2	1.2	5.1	6.2	11.3	0.4	0.2	2.7
356	General industrial machinery -----	-		18	7	1.9	25.6	1.5	2.8	17.8	55.5	45.5	97.8	3.0	EE	(D)
3561	Pumps and pumping equipment -----	-		8	5	1.7	23.2	1.3	2.6	16.6	49.8	41.6	88.1	(D)	EE	(D)
357	Office and computing machines -----	-		3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3573	Electronic computing equipment -----	-		1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
359	Miscellaneous machinery, except electrical -----	-		80	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3592	Carburetors, pistons, rings, and valves -----	-		2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3599	Machinery, except electrical, n.e.c. -----	E2		78	4	0.4	4.9	0.3	0.6	3.6	10.5	6.5	16.9	0.6	BB	(D)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
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[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
36	Electric and electronic equipment -	-	50	28	8.6	98.7	6.2	11.9	65.2	264.0	145.3	410.5	5.8	9.6	171.6
361	Electric distributing equipment -	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3613	Switchgear and switchboard apparatus -	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
366	Communication equipment -	-	12	10	4.4	58.8	3.5	6.4	43.8	145.3	100.6	249.3	(D)	FF	(D)
3661	Telephone and telegraph apparatus -	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3662	Radio and TV communication equipment -	-	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	11.2
367	Electronic components and accessories -	-	15	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3675	Electronic capacitors -	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3676	Electronic resistors -	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
369	Miscellaneous electrical equipment and supplies -	E2	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.3
37	Transportation equipment -	-	43	15	4.3	47.1	3.4	6.6	33.2	118.1	164.4	274.4	(D)	3.4	68.5
371	Motor vehicles and equipment -	-	20	8	2.8	30.0	2.4	4.7	23.3	83.5	67.9	146.3	(D)	2.2	49.5
3714	Motor vehicle parts and accessories -	-	10	5	2.0	20.0	1.7	3.6	15.8	55.2	44.8	105.3	(D)	EE	(D)
3715	Truck trailers -	-	6	3	0.8	9.8	0.7	1.1	7.3	17.9	22.6	40.1	(D)	CC	(D)
3751	Motorcycles, bicycles, and parts -	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
379	Miscellaneous transportation equipment -	-	12	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3799	Transportation equipment, n.e.c. -	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
38	Instruments and related products -	-	33	16	3.5	36.0	3.0	5.9	28.7	145.6	79.4	223.4	9.5	2.9	82.4
382	Measuring and controlling devices -	-	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3824	Fluid meters and counting devices -	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3832	Optical instruments and lenses -	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
384	Medical instruments and supplies -	-	15	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3841	Surgical and medical instruments -	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3842	Surgical appliances and supplies -	-	8	3	0.2	1.8	0.1	0.2	1.1	3.4	2.8	6.3	(D)	(NA)	(NA)
3861	Photographic equipment and supplies -	-	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
39	Miscellaneous manufacturing industries -	-	73	13	1.4	11.4	1.1	2.0	7.5	25.8	20.0	45.3	1.2	1.5	18.8
394	Toys and sporting goods -	-	14	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3949	Sporting and athletic goods, n.e.c. -	-	11	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
399	Miscellaneous manufactures -	-	46	8	1.0	8.4	0.7	1.4	5.3	19.2	16.0	35.1	(D)	0.6	5.4
3991	Brooms and brushes -	E1	6	2	0.2	1.2	0.2	0.3	0.9	2.4	2.1	4.4	(D)	AA	(D)
3993	Signs and advertising displays -	E1	25	4	0.2	2.1	0.1	0.3	1.3	4.1	2.1	6.1	0.1	0.2	2.6
3999	Manufacturing industries, n.e.c. -	-	12	2	0.5	4.8	0.4	0.8	3.0	12.2	10.9	23.1	0.4	(NA)	(NA)
-	Administrative and auxiliary -	-	46	19	2.7	43.2	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
	Lincoln SMSA -----	-	217	75	13.1	154.4	9.3	17.6	94.2	400.0	651.9	1 060.4	21.1	11.6	239.8
27	Printing and publishing -----	-	56	12	1.5	17.1	1.0	1.5	9.4	38.6	27.9	66.4	1.7	1.5	23.1
275	Commercial printing -----	-	30	5	0.7	8.4	0.6	0.9	5.6	15.3	15.8	31.1	0.2	(NA)	(NA)
2752	Commercial printing, lithographic -----	-	17	4	0.6	7.8	0.5	0.8	5.2	14.3	15.3	29.5	0.2	0.6	9.5
30	Rubber and miscellaneous plastics products -----	-	9	3	2.2	27.3	1.8	3.5	20.3	70.4	39.0	108.1	2.2	(NA)	(NA)
32	Stone, clay, and glass products -----	-	11	5	0.3	3.8	0.3	0.5	2.6	7.8	9.3	17.1	0.7	(NA)	(NA)
34	Fabricated metal products ---	-	18	12	1.2	14.1	0.9	1.7	8.5	24.4	25.4	49.5	(D)	0.6	9.6
3441	Fabricated structural metal -----	-	6	3	0.3	2.7	0.2	0.3	1.5	2.5	7.9	10.5	0.2	(NA)	(NA)
36	Electric and electronic equipment -----	-	9	5	1.3	14.4	1.0	1.9	9.7	62.6	30.7	96.0	(D)	1.1	36.8
	Omaha, Nebr.-Iowa, SMSA ---	-	680	243	34.7	457.3	24.7	48.0	288.3	1 217.4	2 616.1	3 835.0	82.6	38.0	846.3
20	Food and kindred products --	-	98	60	8.7	118.3	6.5	13.5	83.3	407.6	1 578.0	1 977.0	27.0	10.7	299.7
201	Meat products -----	-	31	25	3.8	53.1	3.2	6.7	42.0	117.3	1 146.3	1 256.9	13.4	5.2	123.5
2011	Meat packing plants -----	-	21	19	2.7	38.0	2.3	4.7	30.3	89.5	1 051.2	1 135.3	10.5	3.8	89.5
2013	Sausages and other prepared meats -----	-	10	6	1.2	15.1	1.0	2.1	11.7	27.8	95.1	121.6	2.8	(NA)	(NA)
204	Grain mill products -----	-	18	8	1.4	24.1	1.2	2.5	18.9	140.1	158.7	296.7	7.6	1.3	72.0
205	Bakery products -----	-	9	8	1.0	12.9	0.5	1.1	6.7	30.9	22.0	52.9	1.0	1.0	17.0
208	Beverages -----	-	8	6	0.5	7.7	0.3	0.5	3.3	27.5	25.6	53.1	1.6	0.6	16.1
209	Miscellaneous foods and kindred products -----	-	13	5	0.7	8.2	0.4	0.9	3.6	44.3	99.1	143.5	1.0	0.7	31.4
24	Lumber and wood products --	E1	23	6	0.5	4.6	0.4	0.8	3.5	9.3	8.2	17.7	0.9	(NA)	(NA)
25	Furniture and fixtures -----	-	21	11	1.7	18.0	1.3	2.3	10.9	38.3	48.7	86.9	0.7	2.0	31.2
2512	Upholstered household furniture -----	-	5	4	0.6	6.1	0.5	0.8	3.9	11.0	9.2	20.4	(D)	(NA)	(NA)
26	Paper and allied products ---	E2	13	9	0.9	10.5	0.7	1.4	7.1	20.9	33.1	53.8	4.4	0.9	14.7
264	Miscellaneous converted paper products -----	-	8	4	0.4	4.4	0.3	0.6	3.2	8.5	11.6	20.0	2.2	0.4	6.1
265	Paperboard containers and boxes -----	E3	5	5	0.5	6.1	0.4	0.8	4.0	12.4	21.6	33.8	2.2	0.5	8.6
27	Printing and publishing -----	-	143	32	3.2	36.9	2.0	3.8	20.6	77.4	54.6	131.7	3.4	2.9	48.9
275	Commercial printing -----	E1	91	19	1.6	18.4	1.2	2.3	12.3	36.9	30.7	67.3	2.6	1.2	19.0
2751	Commercial printing, letterpress -----	-	44	5	0.6	7.4	0.5	0.9	4.6	14.2	11.8	25.9	(D)	(NA)	(NA)
2752	Commercial printing, lithographic -----	E1	44	13	0.8	10.3	0.7	1.3	7.1	21.8	18.3	39.8	2.1	0.6	11.2
28	Chemicals and allied products -----	-	35	13	1.3	17.5	0.9	1.6	9.4	153.5	129.2	280.7	11.1	1.1	49.7
283	Drugs -----	-	12	6	0.3	4.3	0.2	0.4	2.1	38.0	23.6	61.2	0.9	0.3	16.5
284	Soaps, cleaners, and toilet goods -----	-	5	2	0.3	3.6	0.2	0.4	2.3	11.4	12.8	24.0	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	E3	18	6	0.6	6.0	0.5	0.9	4.0	13.5	12.0	25.3	1.2	0.6	8.7
32	Stone, clay, and glass products -----	-	46	15	0.7	9.4	0.4	0.9	4.7	18.7	26.2	44.7	2.7	1.0	21.4
33	Primary metal industries ---	-	12	7	2.2	36.9	1.7	3.6	27.5	80.8	336.6	431.1	10.3	2.5	93.7
34	Fabricated metal products ---	-	58	18	1.9	27.3	1.5	3.0	17.8	58.1	81.4	136.6	1.9	2.0	31.1
3441	Fabricated structural metal -----	-	6	5	0.3	5.1	0.2	0.4	2.5	7.7	15.6	21.4	(D)	0.4	8.7
3442	Metal doors, sash, and trim -----	E1	7	3	0.3	3.5	0.2	0.4	1.6	6.6	7.0	13.5	0.2	(NA)	(NA)
35	Machinery, except electrical -	-	73	18	4.3	60.0	2.8	5.3	33.7	124.7	107.4	235.6	9.8	4.1	95.5
352	Farm and garden machinery -----	-	17	6	1.9	26.6	1.2	2.3	13.4	61.5	62.0	127.1	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	21	9	4.0	56.2	3.3	6.0	42.4	142.0	94.1	235.7	(D)	(NA)	(NA)
38	Instruments and related products -----	-	14	5	0.4	4.7	0.3	0.6	3.1	13.4	26.5	39.1	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries ---	-	38	7	1.0	8.6	0.8	1.5	5.4	17.3	14.5	31.4	0.9	1.2	16.1
399	Miscellaneous manufactures -----	-	24	5	0.8	6.9	0.6	1.2	4.3	14.4	12.4	26.6	0.8	(NA)	(NA)
3999	Manufacturing industries, n.e.c. -----	-	7	2	0.5	4.6	0.3	0.7	2.8	10.3	9.1	19.2	(D)	(NA)	(NA)
-	Administrative and auxiliary --	-	26	12	1.4	22.3	-	-	-	-	-	-	-	(NA)	(NA)
	Sioux City, Iowa-Nebr., SMSA -----	-	165	62	9.6	123.7	6.5	12.8	71.2	285.4	1 216.0	1 496.1	38.0	10.5	196.2
20	Food and kindred products --	-	47	28	3.8	51.4	2.6	5.6	34.5	135.6	991.9	1 136.3	21.1	4.8	112.1
201	Meat products -----	-	15	10	2.4	33.9	1.9	4.0	26.4	64.1	636.9	705.4	16.9	3.4	76.8
204	Grain mill products -----	-	14	6	0.3	4.0	0.2	0.3	1.9	15.9	66.6	82.5	0.5	0.3	8.8
2046	Prepared feeds, n.e.c. ---	-	14	6	0.3	4.0	0.2	0.3	1.9	15.9	66.6	82.5	0.5	0.3	8.8
27	Printing and publishing -----	E1	24	2	0.3	3.2	0.1	0.2	1.3	9.4	2.9	12.4	0.5	0.4	6.5
28	Chemicals and allied products -----	-	9	4	0.4	7.4	0.2	0.5	3.4	40.3	97.1	138.3	12.8	0.3	15.5
34	Fabricated metal products ---	-	12	4	0.3	4.4	0.2	0.5	2.5	16.1	19.6	26.9	0.3	(NA)	(NA)
35	Machinery, except electrical -	-	24	10	1.3	16.6	0.9	1.6	10.1	32.2	33.3	64.1	1.2	1.5	22.0

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
 (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
² Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- factures ² (million dollars)	Cost of materi- als ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Adams County -----	-	70	21	2.1	25.3	1.5	3.1	14.9	70.8	87.7	156.3	3.0	2.0	34.4
	Buffalo County -----	-	51	17	2.5	29.4	2.0	4.3	21.9	77.3	116.2	189.9	4.6	1.9	35.6
	Dawson County -----	-	49	21	2.8	33.3	2.2	4.9	24.0	81.7	205.2	276.8	5.4	1.9	46.6
20	Food and kindred products --	-	31	12	0.7	8.7	0.6	1.4	6.3	19.8	126.1	144.8	2.0	0.7	11.5
	Dodge County -----	-	65	26	3.1	42.5	2.4	4.5	31.4	112.8	358.0	468.3	2.7	2.9	54.0
20	Food and kindred products --	-	23	10	2.0	30.3	1.6	2.9	23.6	75.5	314.2	390.2	1.7	2.0	37.4
	Douglas County -----	-	560	212	30.3	408.2	21.3	41.4	256.3	1 097.5	2 085.2	3 188.1	(D)	34.3	762.4
204	Grain mill products -----	-	14	8	1.4	23.7	1.2	2.5	18.7	139.3	157.3	294.5	(D)	(NA)	(NA)
208	Beverages -----	-	8	6	0.5	7.7	0.3	0.5	3.3	27.5	25.6	53.1	1.6	(NA)	(NA)
23	Apparel and other textile products -----	E2	16	3	0.6	3.8	0.6	1.0	3.0	4.1	2.5	7.3	(D)	(NA)	(NA)
25	Furniture and fixtures -----	-	14	8	1.2	14.2	0.9	1.8	8.3	32.0	41.7	73.3	0.6	(NA)	(NA)
27	Printing and publishing -----	-	119	29	2.9	34.8	1.9	3.6	19.6	72.7	52.8	125.1	3.2	(NA)	(NA)
2751	Commercial printing, letterpress -----	-	38	5	0.6	7.3	0.5	0.9	4.5	14.0	11.5	25.4	0.4	(NA)	(NA)
2752	Commercial printing, lithographic -----	E1	38	13	0.8	10.0	0.6	1.3	6.9	20.9	17.7	38.4	2.1	(NA)	(NA)
32	Stone, clay, and glass products -----	-	35	14	0.6	8.1	0.4	0.8	4.2	15.6	21.7	37.1	2.6	(NA)	(NA)
327	Concrete, gypsum, and plaster products -----	-	22	13	0.6	7.3	0.3	0.6	3.6	13.8	19.1	32.7	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	48	15	1.7	23.9	1.3	2.7	15.9	51.6	69.2	119.7	(D)	(NA)	(NA)
37	Transportation equipment ---	-	9	4	0.9	11.1	0.8	1.3	8.7	21.3	24.3	45.1	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	32	6	1.0	8.1	0.7	1.4	5.2	16.5	13.7	29.7	0.8	(NA)	(NA)
399	Miscellaneous manufactures -----	-	20	4	0.7	6.5	0.6	1.1	4.1	13.6	11.5	24.9	0.7	(NA)	(NA)
--	Administrative and auxiliary --	-	23	12	1.3	21.9	-	-	-	-	-	-	-	(NA)	(NA)
	Gage County -----	-	22	12	1.2	14.1	0.9	1.7	8.5	50.7	42.1	89.9	3.0	1.2	28.1
	Hall County -----	-	73	29	3.8	46.8	2.7	5.2	28.4	148.2	136.7	284.6	6.1	4.4	71.3
20	Food and kindred products --	-	16	10	0.8	8.2	0.5	1.0	3.8	16.8	33.8	50.5	1.6	1.1	17.5
34	Fabricated metal products ---	-	6	4	0.5	7.5	0.3	0.6	2.8	10.1	25.2	35.0	0.8	(NA)	(NA)
	Jefferson County -----	-	13	5	0.5	4.8	0.4	0.9	3.4	10.1	20.5	30.3	1.2	0.3	3.1
	Kelth County -----	-	16	3	0.8	7.2	0.5	0.9	3.3	17.9	5.5	22.9	0.4	0.7	10.1
	Madison County -----	-	52	20	2.7	31.4	2.0	4.1	20.9	104.0	187.9	291.8	7.7	1.9	35.1
20	Food and kindred products --	-	18	10	0.6	6.5	0.4	0.9	3.8	22.4	124.1	145.7	1.6	0.8	12.6
	Otoe County -----	-	18	11	1.0	9.1	0.8	1.6	7.4	31.4	38.3	69.9	(D)	0.8	20.7
	Platte County -----	-	51	21	4.6	48.4	2.8	5.6	26.2	112.7	127.8	237.3	5.2	4.0	64.9
35	Machinery, except electrical --	-	12	7	1.0	10.1	0.5	0.9	4.4	21.1	40.7	59.7	1.0	(NA)	(NA)
	Red Willow County -----	-	15	7	0.8	7.7	0.7	1.2	5.6	18.7	19.6	37.4	1.5	0.6	10.5
	Saline County -----	-	16	8	1.7	20.5	1.5	3.2	17.0	69.2	188.2	256.2	4.0	1.0	31.7
	Sarpy County -----	-	38	7	0.6	8.9	0.4	0.9	4.6	32.0	40.0	71.7	(D)	0.4	8.5
	Scotts Bluff County -----	-	59	21	2.8	35.1	1.8	3.6	18.6	77.7	175.0	252.6	3.2	2.4	53.9
20	Food and kindred products --	-	15	8	1.0	12.4	0.8	1.8	9.8	28.7	105.5	133.7	0.6	1.0	24.7
	York County -----	-	30	9	0.7	8.6	0.5	1.1	5.3	18.2	124.9	142.7	1.1	0.5	11.9

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E10—100 percent.
²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
		All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
		E1	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
20	Columbus -----	-	41 17	3.2	34.0	1.9	3.9	17.5	74.5	76.9	150.5	(D)	2.9	43.6
	Cozad -----	-	13 9	1.3	14.1	1.1	2.4	11.6	41.5	90.1	126.9	3.0	1.1	35.5
	Fremont-----	-	45 21	2.7	39.3	2.1	4.0	29.1	104.7	339.4	441.9	1.9	2.5	47.9
	Food and kindred products --	-	13 7	1.8	28.4	1.4	2.6	22.3	69.6	297.7	368.0	1.1	1.8	35.6
	Gering -----	-	15 5	1.5	20.0	0.8	1.6	9.0	50.4	99.2	149.8	1.6	1.2	31.5
	Grand Island -----	-	54 23	3.0	37.6	2.1	4.2	24.3	137.9	116.9	252.7	4.6	1.8	26.6
	Kearney -----	-	28 8	1.3	13.5	1.1	2.2	9.6	33.9	33.4	66.2	2.5	1.1	14.1
	Lexington -----	-	17 8	1.2	15.6	0.8	2.0	10.2	33.5	97.8	126.2	1.8	(NA)	(NA)
20	Lincoln-----	-	203 68	11.6	138.1	8.1	15.4	83.6	369.7	405.9	770.7	14.3	(D)	(D)
	Food and kindred products --	-	20 13	2.5	27.8	1.8	3.5	18.6	71.2	223.7	293.1	2.3	(NA)	(NA)
	Printing and publishing -----	-	56 12	1.5	17.1	1.0	1.5	9.4	38.6	27.9	66.4	1.7	(NA)	(NA)
	Commercial printing -----	-	30 5	0.7	8.4	0.6	0.9	5.6	15.3	15.8	31.1	0.2	(NA)	(NA)
	Commercial printing, lithographic -----	-	17 4	0.6	7.8	0.5	0.8	5.2	14.3	15.3	29.5	0.2	(NA)	(NA)
	Norfolk-----	-	28 13	1.0	11.9	0.7	1.4	7.0	34.9	117.6	151.3	2.7	1.4	23.8
	Omaha -----	-	503 190	25.9	347.3	18.6	36.4	225.9	978.9	1 980.6	2 962.1	57.6	32.1	723.9
	Food and kindred products --	-	81 54	6.9	98.3	5.0	10.3	68.1	357.2	1 140.8	1 492.1	22.7	(NA)	(NA)
27	Beverages-----	-	8 6	0.5	7.7	0.3	0.5	3.3	27.5	25.6	53.1	1.6	(NA)	(NA)
	Paperboard containers and boxes -----	E3	4 4	0.5	5.8	0.4	0.7	3.8	11.8	20.8	32.5	2.2	(NA)	(NA)
	Printing and publishing -----	-	109 24	2.6	31.5	1.7	3.2	17.6	64.0	42.7	106.7	2.5	(NA)	(NA)
	Commercial printing -----	-	74 16	1.4	16.6	1.1	2.1	11.1	30.7	26.2	56.8	1.9	(NA)	(NA)
	Stone, clay, and glass products -----	-	28 13	0.6	7.3	0.3	0.7	3.6	13.6	19.9	33.3	2.4	0.8	16.9
	Concrete, gypsum, and plaster products -----	-	18 12	0.5	6.7	0.3	0.6	3.2	12.4	17.9	30.0	(D)	(NA)	(NA)
	Fabricated structural metal products -----	-	19 7	0.6	7.5	0.4	0.7	3.9	10.3	20.7	31.1	0.4	(NA)	(NA)
	Transportation equipment ---	-	9 4	0.9	11.1	0.8	1.3	8.7	21.3	24.3	45.1	(D)	(NA)	(NA)
37	Administrative and auxiliary --	-	16 8	0.7	14.0	-	-	-	-	-	-	-	(NA)	(NA)
	Scottsbluff-----	-	31 12	0.9	10.0	0.7	1.5	7.0	17.1	54.7	72.0	1.1	0.8	13.5
	York -----	-	19 7	0.5	6.5	0.4	0.9	4.3	13.3	115.8	128.2	0.4	(NA)	(NA)

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E10—100 percent.
²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
NEBRASKA	1965	393	5	46	88	32	23	417	60	6	49	8	174	26	130	263	50	43	33	73	46
1 TO 4 EMPLOYEES	772	92	2	17	33	9	2	247	23	3	17	4	75	9	47	112	11	16	11	39	11
5 TO 9 EMPLOYEES	280	47	1	6	20	6	5	43	8	9	4	1	40	4	16	43	11	7	4	8	8
10 TO 19 EMPLOYEES	287	70	1	8	9	5	3	60	9	10	10	1	19	4	14	45	2	5	2	13	8
20 TO 49 EMPLOYEES	282	82	1	3	11	4	6	41	8	1	7	4	31	5	19	25	10	3	6	7	9
50 TO 99 EMPLOYEES	154	50	1	5	9	3	2	17	5	1	4	4	4	3	15	17	4	5	3	2	4
100 TO 249 EMPLOYEES	115	32	1	5	5	3	5	6	6	1	4	1	5	2	5	10	9	1	1	3	4
250 TO 499 EMPLOYEES	41	14	1	2	1	1	1	2	1	1	2	1	1	1	1	4	4	1	4	1	1
500 TO 999 EMPLOYEES	27	5	1	1	1	1	1	1	1	1	1	1	1	1	1	3	4	5	2	1	1
1000 TO 2499 EMPLOYEES	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	1	1	1	1
2500 EMPLOYEES AND OVER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ADAMS COUNTY	70	9	1	3	5	1	1	7	1	1	3	1	14	4	3	10	1	3	2	3	3
1 TO 19 EMPLOYEES	49	5	1	2	3	1	1	6	1	1	2	1	13	3	1	7	1	2	2	3	3
20 TO 99 EMPLOYEES	14	3	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100 TO 249 EMPLOYEES	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ANTELOPE COUNTY	12	1	1	1	1	1	1	5	1	1	1	1	1	1	1	1	1	1	1	1	1
1 TO 19 EMPLOYEES	10	1	1	1	1	1	1	5	1	1	1	1	1	1	1	1	1	1	1	1	1
20 TO 99 EMPLOYEES	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ARTHUR COUNTY	2	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
1 TO 19 EMPLOYEES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BLAINE COUNTY	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1 TO 19 EMPLOYEES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BOONE COUNTY	3	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1
1 TO 19 EMPLOYEES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BOX BUTTE COUNTY	11	2	1	1	1	1	1	5	1	1	1	1	1	1	1	1	1	1	1	1	1
1 TO 19 EMPLOYEES	1	1	1	1	1	1	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1
20 TO 99 EMPLOYEES	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100 TO 249 EMPLOYEES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BOYD COUNTY	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
1 TO 19 EMPLOYEES	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
BROWN COUNTY	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
1 TO 19 EMPLOYEES	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
BUFFALO COUNTY	51	19	1	1	1	1	1	6	1	1	2	1	4	1	3	7	2	2	2	2	2
1 TO 19 EMPLOYEES	34	12	1	1	1	1	1	5	1	1	1	1	4	1	2	4	2	1	1	1	1
20 TO 99 EMPLOYEES	12	6	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1
100 TO 249 EMPLOYEES	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BURT COUNTY	11	5	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
1 TO 19 EMPLOYEES	10	5	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
100 TO 249 EMPLOYEES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BUTLER COUNTY	9	4	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
1 TO 19 EMPLOYEES	8	3	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
100 TO 249 EMPLOYEES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CASS COUNTY	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	1	1	1	1
1 TO 19 EMPLOYEES	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	5	1	1	1	1
20 TO 99 EMPLOYEES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100 TO 249 EMPLOYEES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CEDAR COUNTY	12	3	1	1	1	1	1	5	1	1	1	1	1	1	1	2	2	1	1	1	1
1 TO 19 EMPLOYEES	11	1	1	1	1	1	1	5	1	1	1	1	1	1	1	2	2	1	1	1	1
20 TO 99 EMPLOYEES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CHASE COUNTY	7	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1
1 TO 19 EMPLOYEES	7	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1
CHERRY COUNTY	9	1	1	1	1	1	1	3	1	1	1	1	3	2	1	2	2	1	1	1	1
1 TO 19 EMPLOYEES	9	1	1	1	1	1	1	3	1	1	1	1	3	2	1	2	2	1	1	1	1

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO ²
CHEYENNE COUNTY.	11	1	-	-	-	-	-	-	2	-	-	-	-	1	1	-	5	-	-	-	-	1
1 TO 19 EMPLOYEES.	7	1	-	-	-	-	-	-	2	-	-	-	-	1	1	-	3	-	-	-	-	-
20 TO 99 EMPLOYEES.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	1
100 TO 249 EMPLOYEES.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLAY COUNTY.	5	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	2	-	-	-	-	-
1 TO 19 EMPLOYEES.	4	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	2	-	-	-	-	-
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COLFAX COUNTY.	14	5	-	-	-	-	-	-	5	-	-	-	-	2	-	-	-	-	1	-	-	1
1 TO 19 EMPLOYEES.	12	3	-	-	-	-	-	-	5	-	-	-	-	2	-	-	-	-	1	-	-	1
20 TO 99 EMPLOYEES.	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CUMING COUNTY.	12	6	-	-	-	-	-	-	2	-	-	-	-	2	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES.	8	3	-	-	-	-	-	-	2	-	-	-	-	1	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES.	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CUSTER COUNTY.	15	1	-	1	-	-	-	-	5	-	-	-	-	5	-	1	1	-	-	1	-	-
1 TO 19 EMPLOYEES.	12	1	-	1	-	-	-	-	4	-	-	-	-	5	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES.	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DAKOTA COUNTY.	21	5	-	-	2	-	-	-	3	-	-	-	-	2	1	2	4	1	-	-	-	1
1 TO 19 EMPLOYEES.	13	1	-	-	1	-	-	-	3	-	-	-	-	2	2	2	3	1	-	-	-	-
20 TO 99 EMPLOYEES.	6	3	-	-	1	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
DAMES COUNTY.	10	2	-	-	1	-	-	-	4	-	-	-	-	2	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES.	7	2	-	-	1	-	-	-	2	-	-	-	-	2	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DANSON COUNTY.	49	31	-	-	-	-	-	-	6	-	-	1	-	1	-	-	4	4	2	-	-	-
1 TO 19 EMPLOYEES.	28	19	-	-	-	-	-	-	6	-	-	-	-	1	-	-	1	1	1	-	-	-
20 TO 99 EMPLOYEES.	16	11	-	-	-	-	-	-	-	-	-	1	-	1	-	-	2	2	1	-	-	-
100 TO 249 EMPLOYEES.	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
DEUEL COUNTY.	4	2	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	4	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
DIXON COUNTY.	5	1	-	-	2	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES.	4	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DODGE COUNTY.	65	23	-	2	4	1	1	1	8	3	-	1	-	6	1	2	6	1	4	-	2	-
1 TO 19 EMPLOYEES.	39	13	-	1	3	-	-	-	6	2	-	1	-	6	-	-	4	4	1	1	2	-
20 TO 99 EMPLOYEES.	20	8	-	-	-	-	-	-	2	1	-	-	-	-	-	1	1	1	1	3	-	-
100 TO 249 EMPLOYEES.	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOUGLAS COUNTY.	560	84	-	1	16	19	14	11	119	29	4	14	4	35	10	48	61	15	9	12	32	23
1 TO 19 EMPLOYEES.	348	30	-	1	13	15	5	3	90	17	2	9	2	21	4	33	45	8	5	7	26	11
20 TO 99 EMPLOYEES.	150	39	-	-	2	4	6	4	25	8	1	3	2	13	2	10	11	4	2	4	3	8
100 TO 249 EMPLOYEES.	41	7	-	-	-	2	-	4	3	4	1	2	-	1	2	4	2	2	1	1	2	3
250 EMPLOYEES AND OVER	21	6	-	-	1	-	-	-	1	-	-	-	-	-	-	1	3	1	1	-	1	1
DUNDY COUNTY.	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FILLMORE COUNTY.	8	3	-	-	-	-	-	-	1	1	-	-	-	1	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES.	8	3	-	-	-	-	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-
FRANKLIN COUNTY.	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES.	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
FRONTIER COUNTY.	3	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	3	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
FURNAS COUNTY.	16	3	-	-	1	-	-	-	2	-	-	1	-	2	-	3	4	-	-	-	-	-
1 TO 19 EMPLOYEES.	14	2	-	-	1	-	-	-	2	-	-	1	-	2	-	2	4	-	-	-	-	-
20 TO 99 EMPLOYEES.	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major group descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastic products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
GAGE COUNTY. 1 TO 19 EMPLOYEES.	22	4	-	-	2	2	2	-	4	2	-	-	-	3	-	2	1	-	-	-	-	-	
20 TO 99 EMPLOYEES.	10	2	-	-	1	2	1	-	3	-	-	-	-	-	1	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES.	8	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER.	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
GARDEN COUNTY. 1 TO 19 EMPLOYEES.	5	-	-	-	-	-	-	-	1	-	-	1	-	1	-	-	-	1	-	1	-	-	
20 TO 99 EMPLOYEES.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	
GARFIELD COUNTY. 1 TO 19 EMPLOYEES.	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	
20 TO 99 EMPLOYEES.	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GOSPER COUNTY. 1 TO 19 EMPLOYEES.	4	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-	-	-	1	-	
20 TO 99 EMPLOYEES.	4	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
GREELEY COUNTY. 1 TO 19 EMPLOYEES.	4	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES.	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HALL COUNTY. 1 TO 19 EMPLOYEES.	73	16	-	-	6	1	-	11	11	2	-	2	-	6	-	6	10	1	-	1	5	4	
20 TO 99 EMPLOYEES.	44	7	-	-	4	1	-	10	1	2	-	1	-	3	-	3	6	1	-	1	2	4	
100 TO 249 EMPLOYEES.	21	2	-	-	2	-	-	1	-	-	-	-	-	-	-	-	2	-	-	-	-	-	
250 EMPLOYEES AND OVER.	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
HAMILTON COUNTY. 1 TO 19 EMPLOYEES.	12	3	-	-	1	-	-	-	1	1	-	-	1	1	-	1	1	1	-	1	-	-	
20 TO 99 EMPLOYEES.	10	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HARLAN COUNTY. 1 TO 19 EMPLOYEES.	4	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES.	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HAYES COUNTY. 1 TO 19 EMPLOYEES.	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	
20 TO 99 EMPLOYEES.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HITCHCOCK COUNTY. 1 TO 19 EMPLOYEES.	4	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	2	-	-	-	-	
20 TO 99 EMPLOYEES.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	
100 TO 249 EMPLOYEES.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HOLT COUNTY. 1 TO 19 EMPLOYEES.	12	1	-	-	2	-	-	3	3	-	-	-	-	3	-	-	2	-	-	-	1	-	
20 TO 99 EMPLOYEES.	10	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
100 TO 249 EMPLOYEES.	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HOOVER COUNTY. 1 TO 19 EMPLOYEES.	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES.	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HOWARD COUNTY. 1 TO 19 EMPLOYEES.	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES.	13	3	-	-	1	1	-	-	2	-	-	-	-	4	-	-	1	-	1	-	-	-	
250 EMPLOYEES AND OVER.	8	2	-	-	-	-	-	-	1	-	-	-	-	3	-	-	-	-	-	-	-	-	
JEFFERSON COUNTY. 1 TO 19 EMPLOYEES.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES.	3	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JOHNSON COUNTY. 1 TO 19 EMPLOYEES.	5	2	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES.	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KEARNEY COUNTY. 1 TO 19 EMPLOYEES.	10	2	-	-	-	-	-	-	3	-	-	-	-	-	-	-	3	-	1	-	-	-	
20 TO 99 EMPLOYEES.	9	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KEITH COUNTY. 1 TO 19 EMPLOYEES.	16	1	-	-	-	-	-	-	4	-	-	-	-	3	-	-	2	3	-	-	2	-	
20 TO 99 EMPLOYEES.	13	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977-Cont.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
KEYA PAHA COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
KIMBALL COUNTY	11	1	-	-	-	-	-	-	3	-	-	-	-	-	-	2	3	2	1	-	-	-
1 TO 19 EMPLOYEES.	9	1	-	-	-	-	-	-	3	-	-	-	-	-	-	2	2	2	1	-	-	-
20 TO 99 EMPLOYEES.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-
KNOX COUNTY.	15	4	-	-	-	-	-	-	5	-	-	1	-	2	-	-	3	-	-	-	-	-
1 TO 19 EMPLOYEES.	15	4	-	-	-	-	-	-	5	-	-	1	-	2	-	-	3	-	-	-	-	-
LANCASTER COUNTY	217	22	-	1	4	10	9	9	56	6	-	9	1	11	2	18	20	9	8	9	6	11
1 TO 19 EMPLOYEES.	142	8	-	-	4	8	8	3	44	4	-	6	1	6	1	6	16	4	5	6	5	7
20 TO 99 EMPLOYEES.	48	6	-	-	-	1	1	2	9	1	-	2	-	5	1	9	3	2	1	2	1	4
100 TO 249 EMPLOYEES.	14	6	-	-	-	-	-	-	2	1	-	-	-	-	-	2	-	2	-	-	-	-
250 EMPLOYEES AND OVER.	13	2	-	1	-	-	-	-	2	1	-	1	-	-	-	1	1	1	2	1	-	-
LINCOLN COUNTY	25	9	-	-	3	-	-	-	5	-	-	1	-	-	-	1	4	-	-	-	2	-
1 TO 19 EMPLOYEES.	20	6	-	-	-	2	-	-	4	-	-	1	-	-	-	1	4	-	-	-	2	-
20 TO 99 EMPLOYEES.	5	3	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
LOGAN COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
MADISON COUNTY	52	18	-	1	2	-	-	-	8	1	-	-	-	4	2	3	9	1	1	1	-	-
1 TO 19 EMPLOYEES.	32	8	-	1	2	-	-	-	6	1	-	-	-	2	1	2	7	-	1	-	-	1
20 TO 99 EMPLOYEES.	13	9	-	-	-	-	-	-	1	-	-	-	-	1	-	1	2	-	-	-	-	-
100 TO 249 EMPLOYEES.	4	1	-	-	-	-	-	-	1	-	-	-	-	1	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-
HERRICK COUNTY	9	1	-	-	-	2	-	-	2	-	-	-	-	3	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES.	8	1	-	-	-	1	-	-	2	-	-	-	-	3	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MORRILL COUNTY	8	1	-	-	-	-	-	-	2	1	-	-	-	2	-	-	-	-	1	-	1	-
1 TO 19 EMPLOYEES.	7	1	-	-	-	-	-	-	2	1	-	-	-	2	-	-	-	-	1	-	1	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NANCE COUNTY	5	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES.	5	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	-
NEMAH COUNTY.	9	1	-	-	1	2	-	-	1	-	-	-	-	2	1	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES.	5	1	-	-	1	-	-	-	1	-	-	-	-	2	1	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NUCKOLLS COUNTY.	8	3	-	-	-	-	-	-	2	1	-	-	-	2	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	5	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	2	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTOE COUNTY.	18	5	-	-	4	-	-	-	3	-	-	1	-	2	-	-	1	1	-	1	-	-
1 TO 19 EMPLOYEES.	7	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	8	2	-	-	1	-	-	-	2	-	-	1	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PAWNEE COUNTY.	3	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES.	2	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PERKINS COUNTY	2	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	2	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-
PHELPS COUNTY.	13	2	-	1	-	-	-	-	4	-	-	-	-	1	-	-	1	1	-	1	2	-
1 TO 19 EMPLOYEES.	9	2	-	-	-	-	-	-	3	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES.	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PIERCE COUNTY.	4	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-
1 TO 19 EMPLOYEES.	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
PLATTE COUNTY.	51	7	-	-	-	1	-	1	8	1	-	2	-	3	-	7	12	2	2	1	3	1
1 TO 19 EMPLOYEES.	30	3	-	-	-	1	-	1	7	1	-	1	-	2	-	4	9	1	2	-	3	-
20 TO 99 EMPLOYEES.	14	4	-	-	-	-	-	-	1	-	-	-	-	1	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	1	-	1	-	-
250 EMPLOYEES AND OVER.	5	-	-	-	-	-	-	-	2	1	-	-	-	1	-	-	-	-	-	-	-	-
POLK COUNTY.	5	1	-	-	-	-	-	-	2	1	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	4	1	-	-	-	-	-	-	2	1	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
RED WILLOW COUNTY.	15	5	-	-	-	-	-	-	2	-	-	1	-	1	-	-	2	1	1	2	-	-
1 TO 19 EMPLOYEES.	8	3	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	5	2	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
RICHARDSON COUNTY.	16	4	-	-	-	1	-	-	3	-	-	-	-	2	-	1	3	-	1	-	1	-
1 TO 19 EMPLOYEES.	11	2	-	-	-	-	-	-	2	-	-	-	-	2	-	1	3	-	-	-	1	-
20 TO 99 EMPLOYEES.	4	1	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROCK COUNTY.	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES.	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
SALINE COUNTY.	16	5	-	-	1	2	-	-	3	-	-	-	-	-	-	3	1	-	-	-	-	1
1 TO 19 EMPLOYEES.	8	3	-	-	-	-	-	-	3	-	-	-	-	-	-	2	1	-	-	-	-	1
20 TO 99 EMPLOYEES.	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
SARPY COUNTY.	38	2	-	-	1	2	2	2	8	2	-	2	1	7	1	2	1	2	1	-	1	1
1 TO 19 EMPLOYEES.	31	2	-	-	1	2	1	1	7	1	-	2	1	6	1	2	1	2	1	-	1	1
20 TO 99 EMPLOYEES.	6	2	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAUNDERS COUNTY.	22	4	-	-	-	1	-	-	5	-	-	1	-	2	-	2	7	-	-	-	-	-
1 TO 19 EMPLOYEES.	15	3	-	-	-	1	-	-	4	-	-	-	-	1	-	2	6	-	-	-	-	-
20 TO 99 EMPLOYEES.	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCOTTS BLUFF COUNTY.	59	15	-	-	2	3	1	1	9	1	1	-	-	6	1	5	10	2	-	-	1	1
1 TO 19 EMPLOYEES.	38	7	-	-	1	1	1	1	8	1	-	-	-	4	1	3	9	1	-	-	1	1
20 TO 99 EMPLOYEES.	12	2	-	-	1	2	1	1	1	-	-	-	-	2	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES.	8	6	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEWARD COUNTY.	14	1	-	-	-	1	-	-	5	1	-	-	-	4	-	-	-	-	1	-	1	-
1 TO 19 EMPLOYEES.	12	1	-	-	-	1	-	-	5	1	-	-	-	4	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHERIDAN COUNTY.	11	7	-	-	-	-	-	-	2	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES.	10	6	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHERMAN COUNTY.	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STANTON COUNTY.	3	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
THAYER COUNTY.	11	1	-	-	-	-	-	-	4	1	-	-	-	2	-	-	2	-	-	-	1	-
1 TO 19 EMPLOYEES.	9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
THOMAS COUNTY.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
THURSTON COUNTY.	12	2	-	-	-	1	-	-	2	-	-	-	-	-	-	-	6	-	1	-	-	-
1 TO 19 EMPLOYEES.	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

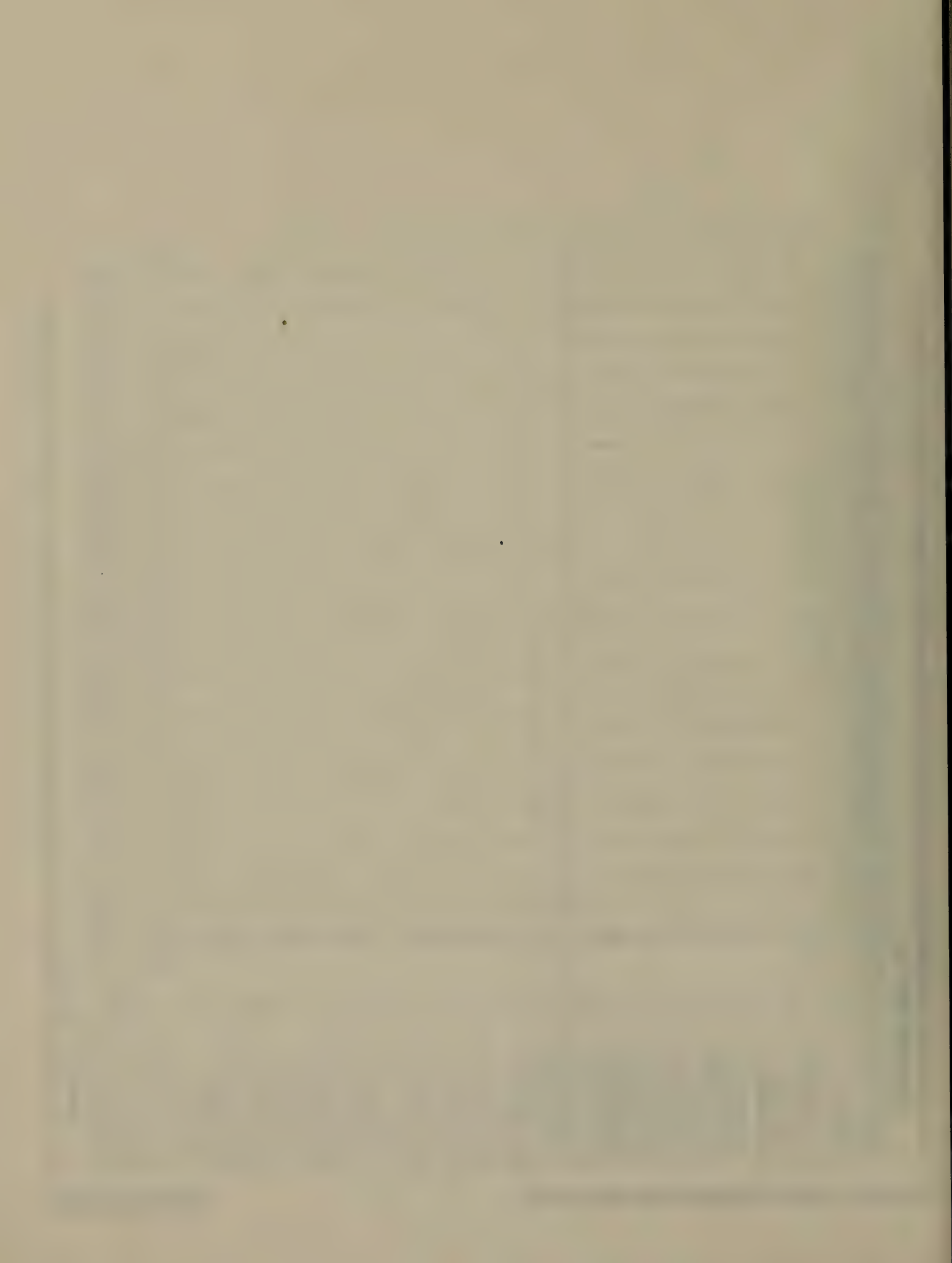
(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
VALLEY COUNTY	6	2	-	-	-	-	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-	-	
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
WASHINGTON COUNTY	21	7	-	-	-	-	-	-	2	-	-	1	-	1	-	2	7	-	-	-	1	-	
1 TO 19 EMPLOYEES	18	7	-	-	-	-	-	-	-	-	-	1	-	-	-	1	5	-	-	-	-	-	
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WAYNE COUNTY	9	1	-	-	-	-	-	-	3	-	-	1	-	-	-	2	2	-	-	-	-	-	
1 TO 19 EMPLOYEES	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	
WEBSTER COUNTY	5	2	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
YORK COUNTY	30	4	-	-	1	3	-	1	5	-	-	1	-	2	1	5	6	-	1	-	-	-	
1 TO 19 EMPLOYEES	21	2	-	-	1	1	-	1	4	-	-	-	-	2	-	3	5	-	1	-	-	-	
20 TO 99 EMPLOYEES	7	1	-	-	-	1	-	-	1	-	-	-	-	-	-	2	1	-	-	-	-	-	
100 TO 249 EMPLOYEES	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

¹Only those counties and size classes that include data for manufacturing establishments are shown.



Nevada

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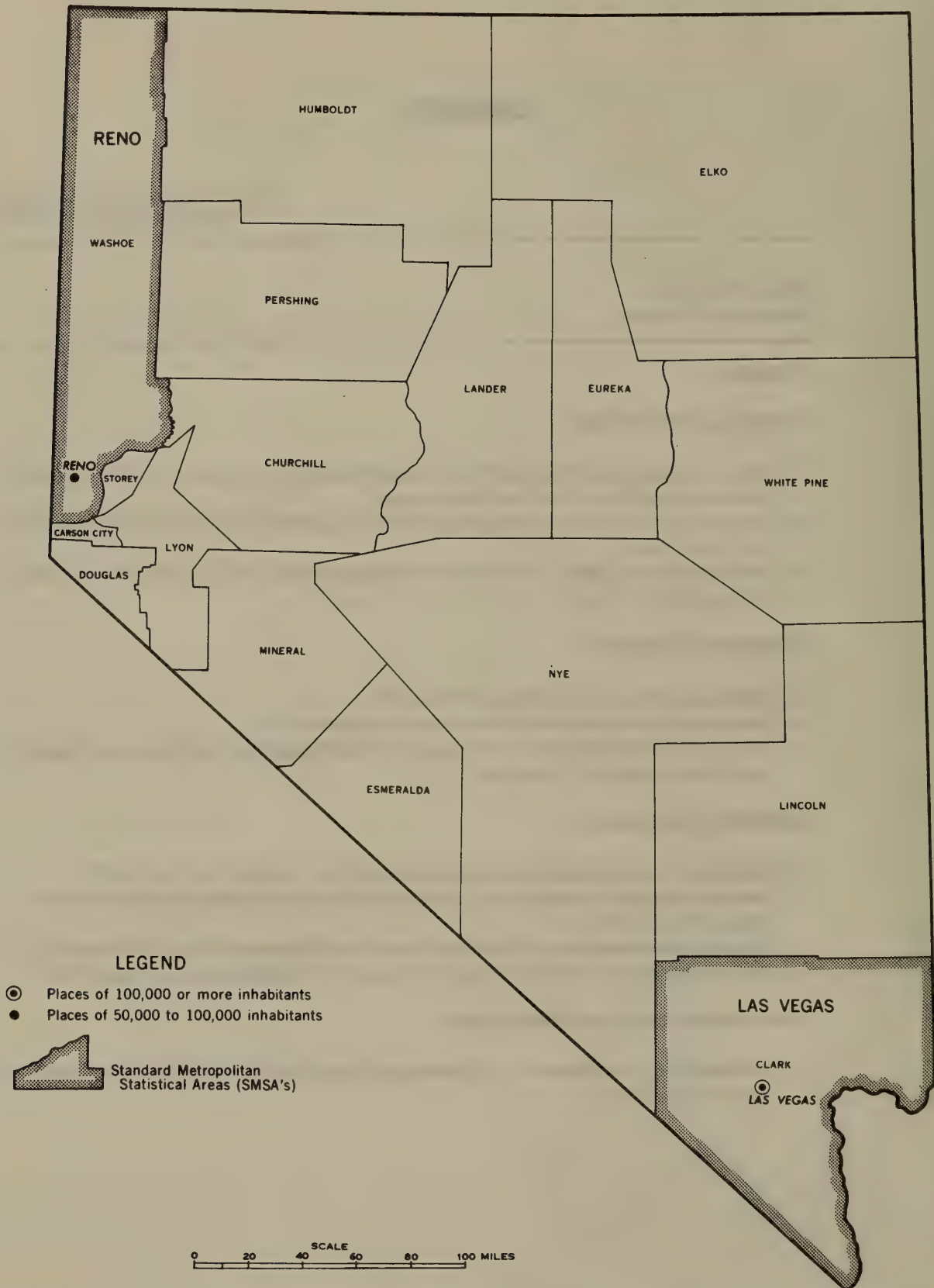
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NEVADA



SUMMARY OF FINDINGS

In 1977, 15.0 thousand persons were employed in Nevada's manufacturing establishments. This figure represented an increase of 50 percent from the 1972 figure of 10.0 thousand workers.

The total value added by manufacture for the State amounted to \$495 million in 1977, an increase of approximately 138 percent from the 1972 figure of \$208 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were printing and publishing; stone, clay, and glass products; electric and electronic equipment; and food and kindred products. They accounted for approximately 47 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 51 percent of the State's employment.

The most important counties in the State ranked by employ-

ment were Washoe, Clark, Carson City (independent city), and Douglas. They accounted for approximately 88 percent of the State's 1977 manufacturing employment. The order has shifted from 1972 when Clark, Washoe, Carson City (independent city), and Douglas accounted for approximately 76 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 13 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Nevada:						
1977.....	15.0	191.6	14.5	184.9	0.5	6.7
1972.....	10.0	91.7	9.6	87.6	0.4	4.1
1967.....	7.0	49.6	7.0	49.1	(Z)	.5
1963.....	6.8	42.2	(D)	(D)	(D)	(D)
STANDARD METROPOLITAN STATISTICAL AREAS						
Las Vegas:						
1977.....	5.4	72.9	(D)	(D)	(D)	(D)
1972.....	4.3	40.3	(D)	(D)	(D)	(D)
1967.....	3.9	28.4	3.9	28.4	-	-
1963.....	3.9	24.9	3.9	24.9	-	-
Reno:						
1977.....	6.8	85.8	(D)	(D)	(D)	(D)
1972.....	3.5	31.3	(D)	(D)	(D)	(D)
1967.....	2.1	14.7	(D)	(D)	(D)	(D)
1963.....	2.1	12.8	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers							Comparative indexes and U.S. employment			
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	Percent of U.S. manufacturing employment (percent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
NEVADA															
1977 CENSUS.	729	147	15.0	191.6	10.0	19.3	113.4	495.2	461.0	942.0	46.4	.08	100	100	19 596.9
1976 ASM....	(NA)	(NA)	13.6	144.4	7.7	14.4	86.9	354.2	371.1	724.8	53.0	.07	90	96	18 753.0
1975 ASM....	(NA)	(NA)	11.3	127.2	7.8	14.1	78.1	313.0	331.6	638.4	28.5	.06	75	94	18 302.2
1974 ASM....	(NA)	(NA)	11.6	115.3	8.1	15.3	72.6	309.0	343.0	640.2	24.3	.06	77	102	19 844.8
1973 ASM....	(NA)	(NA)	11.0	98.9	7.8	14.8	63.1	223.9	292.5	519.9	12.7	.06	73	102	19 897.9
1972 CENSUS.	447	104	10.0	91.7	6.9	13.5	57.2	207.7	222.1	423.4	23.5	.05	66	98	19 028.7
1971 ASM....	(NA)	(NA)	7.5	64.6	5.3	10.5	40.3	145.9	163.3	307.4	21.7	.04	50	94	18 363.1
1970 ASM....	(NA)	(NA)	8.3	68.2	6.0	11.7	43.1	158.8	168.6	323.5	13.0	.04	55	99	19 217.2
1969 ASM....	(NA)	(NA)	7.9	62.2	5.8	11.1	39.6	161.8	159.6	322.5	16.5	.04	53	103	20 035.5
1968 ASM....	(NA)	(NA)	6.9	51.2	4.9	9.3	32.0	143.7	134.5	276.0	14.2	.04	46	100	19 527.6
1967 CENSUS.	330	74	7.0	49.6	4.8	9.3	31.2	133.8	117.2	250.0	15.4	.04	47	99	19 323.2
1966 ASM....	(NA)	(NA)	6.4	44.8	4.4	8.8	28.1	114.2	131.1	245.6	6.3	.03	43	98	19 024.5
1965 ASM....	(NA)	(NA)	6.9	44.2	4.9	9.8	28.8	108.1	125.0	230.7	17.2	.04	46	92	18 010.2
1964 ASM....	(NA)	(NA)	6.5	42.4	4.6	9.5	27.9	113.8	120.2	234.5	8.2	.04	43	89	17 268.5
1963 CENSUS.	283	73	6.8	42.2	4.8	9.5	28.4	106.3	(NA)	(NA)	8.7	.04	45	87	16 958.4

(NA) Not available.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

*Standard error exceeds 15 percent. Data should be used with caution.

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	NEVADA								
1977 CENSUS.....	12 738	66	1 938	5.88	49	69	32 920	39	25.68
1976 ASM ²	10 618	57	1 870	6.03	51	71	26 044	41	24.60
1975 ASM.....	11 257	69	1 808	5.54	52	72	27 699	41	22.20
1974 ASM.....	9 940	70	1 889	4.75	54	72	26 638	37	20.20
1973 ASM.....	8 991	71	1 897	4.26	56	75	20 355	44	15.13
1972 CENSUS.....	9 170	69	1 957	4.24	52	74	20 770	44	15.39
1971 ASM.....	8 613	71	1 981	3.84	53	74	19 453	44	13.90
1970 ASM.....	8 217	72	1 950	3.68	52	73	19 133	43	13.57
1969 ASM.....	7 873	73	1 914	3.57	49	69	20 481	38	14.58
1968 ASM.....	7 420	71	1 896	3.44	49	67	20 826	36	15.45
1967 CENSUS.....	7 086	69	1 938	3.35	47	67	19 114	37	14.39
1966 ASM.....	7 000	69	2 000	3.19	53	72	17 844	39	12.98
1965 ASM.....	6 406	71	2 000	2.94	54	73	15 667	41	11.03
1964 ASM.....	6 523	71	2 065	2.94	51	69	17 508	37	11.98
1963 CENSUS.....	6 206	71	1 979	2.99	(NA)	(NA)	15 632	40	11.19

Note: For qualifications to data, see footnotes on table 2a.

(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹ -----	number-----	729	447
With 1 to 19 employees-----	do-----	582	338
With 20 to 99 employees-----	do-----	112	86
With 100 employees or more-----	do-----	35	23
All employees, average for year ¹ -----	1,000-----	15.0	10.0
Payroll for year, all employees ¹ -----	mil. dollars--	191.6	91.7
Production workers:			
Average for year-----	1,000-----	10.0	6.9
March-----	do-----	9.7	6.5
May-----	do-----	9.9	6.8
August-----	do-----	10.0	7.3
November-----	do-----	10.2	7.2
Hours-----	millions-----	19.3	13.5
January to March-----	do-----	4.7	3.0
April to June-----	do-----	4.9	3.4
July to September-----	do-----	4.8	3.6
October to December-----	do-----	4.9	3.5
Wages-----	mil. dollars--	113.4	57.2
Cost of materials, etc. ² -----	do-----	461.0	222.1
Materials, parts, containers, etc., consumed-----	do-----	371.5	187.5
Resales-----	do-----	44.6	14.4
Fuels consumed-----	do-----	20.5	8.2
Purchased electric energy-----	do-----	14.0	6.5
Contract work-----	do-----	10.4	5.5
Value of shipments, including resales ² -----	do-----	942.0	423.4
Value of resales-----	do-----	49.4	18.8
Value added by manufacture-----	do-----	495.2	207.7
Manufacturers' inventories:			
Beginning of year-----	do-----	136.1	63.5
Finished products-----	do-----	34.6	21.8
Work in process-----	do-----	48.1	18.2
Materials, supplies, fuel, etc.-----	do-----	53.4	23.4
End of year-----	do-----	161.7	65.7
Finished products-----	do-----	45.3	21.4
Work in process-----	do-----	51.6	23.1
Materials, supplies, fuel, etc.-----	do-----	64.8	21.2
Capital expenditures for plant and equipment-----	do-----	48.6	24.6
New capital expenditures-----	do-----	46.4	23.5
New buildings and other structures-----	do-----	11.4	4.0
New machinery and equipment-----	do-----	35.0	19.5
Used capital expenditures-----	do-----	2.2	1.0

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Including central administrative offices and auxiliaries (for definition, see appendix B).

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	9.6	11
Beginning of year.....	332.4	4	Buildings and other structures.....	5.1	7
New capital expenditures.....	48.8	13	Machinery and equipment.....	(4.5)	21
Used capital expenditures.....	(3.8)	51			
Retirements.....	13.4	7	Depreciation charges during 1977:		
End of year.....	371.6	4	Total.....	26.6	3
Buildings and other structures:			Buildings and other structures.....	3.3	8
Beginning of year.....	72.6	6	Machinery and equipment.....	23.2	3
New capital expenditures.....	(12.5)	29			
Used capital expenditures.....	(.1)	86	Supplemental labor costs:		
Retirements.....	3.1	5	Total.....	32.8	5
End of year.....	82.1	7	Legal costs.....	16.5	3
Machinery and equipment:			Voluntary costs.....	16.3	8
Beginning of year.....	259.7	4			
New capital expenditures.....	36.3	10	Purchased services:		
Automobiles, trucks, etc., for highway use...	5.9	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	1.2	(NA)	Buildings and other structures.....	(.4)	75
All other.....	21.5	(NA)	Response coverage ratio (percent).....	60	(X)
New machinery and equipment, n.s.k.....	7.7	(NA)	Machinery.....	(5.6)	33
Used capital expenditures.....	(3.7)	51	Response coverage ratio (percent).....	59	(X)
Retirements.....	10.3	8	Cost of purchased communication services.....	(1.4)	55
End of year.....	289.5	3	Response coverage ratio (percent).....	57	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

Figures in parentheses have standard errors of 15 percent or more.

(NA) Not available.

n.s.k. Not specified by kind.

(X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972		
	E ¹	All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
Nevada -----	E1	729	147	15.0	191.6	10.0	19.3	113.4	495.2	461.0	942.0	46.4	10.0	207.7
STANDARD METROPOLITAN STATISTICAL AREAS														
Las Vegas -----	-	285	52	5.4	72.9	3.6	6.9	45.7	166.5	184.3	354.7	16.4	4.3	94.9
Reno -----	E1	303	73	6.8	85.8	4.4	8.7	47.3	238.0	192.0	418.6	22.7	3.5	71.0
COUNTIES														
Churchill -----	-	12	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Clark -----	E1	285	52	5.4	72.9	3.6	6.9	45.7	166.5	184.3	354.7	16.4	4.3	94.9
Douglas -----	-	15	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	5.6
Elko -----	E4	12	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Esmeralda -----	-	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Humboldt -----	-	7	2	0.1	1.4	0.1	0.2	1.0	3.0	3.4	6.4	0.2	(Z)	(NA)
Lander -----	-	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Lincoln -----	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lyon -----	E2	9	1	0.2	3.6	0.2	0.3	2.6	7.9	11.7	19.1	(D)	0.3	6.8
Mineral -----	E8	4	-	(Z)	0.1	(Z)	(Z)	(Z)	0.1	0.1	0.2	(D)	(D)	(D)
Nye -----	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Pershing -----	E2	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Storey -----	E0	4	-	(Z)	0.1	(Z)	(Z)	(Z)	0.1	0.1	0.3	(Z)	(D)	(D)
Washoe -----	-	303	73	6.8	85.8	4.4	8.7	47.3	238.0	192.0	418.6	22.7	3.5	71.0
White Pine -----	-	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Carson City (independent city) -----	E1	58	10	1.0	10.4	0.7	1.3	6.0	23.6	18.6	42.2	2.4	0.5	8.2
CITIES														
Carson City -----	E1	58	10	1.0	10.4	0.7	1.3	6.0	23.6	18.6	42.2	2.4	(NA)	(NA)
Henderson -----	-	28	10	1.9	28.5	1.3	2.7	19.2	68.2	91.1	163.5	8.8	0.8	29.1
Las Vegas -----	E1	150	23	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	33.3
Reno -----	E2	163	40	4.0	49.8	2.5	5.0	26.3	140.5	84.0	214.2	11.1	2.0	42.3
Sparks -----	E1	114	28	2.3	28.5	1.5	2.8	15.4	79.9	90.1	168.9	10.1	0.7	15.9

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Valu added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	All Industries -----	-	729	147	15.0	191.6	10.0	19.3	113.4	495.2	461.0	942.0	46.4	10.0	207.7
20	Food and kindred products -----	-	49	18	1.4	18.3	0.8	1.5	8.7	66.3	104.9	171.2	6.2	1.4	30.0
202	Dairy products -----	-	4	3	0.2	3.7	0.1	0.2	1.2	7.7	23.2	30.9	(D)	0.4	8.1
2026	Fluid milk -----	-	4	3	0.2	3.7	0.1	0.2	1.2	7.7	23.2	30.9	(D)	0.4	8.1
204	Grain mill products -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2047	Dog, cat, and other pet food -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
205	Bakery products -----	E2	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2051	Bread, cake, and related products -----	E2	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
208	Beverages -----	-	10	6	0.4	5.0	0.1	0.2	1.0	15.3	21.0	36.3	1.9	0.3	6.3
2086	Bottled and canned soft drinks -----	-	8	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	6.3
209	Miscellaneous foods and kindred products -----	E1	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.3
2099	Food preparations, n.e.c. -----	E1	9	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
23	Apparel and other textile products -----	E1	25	2	0.2	1.3	0.2	0.3	0.8	2.6	3.2	6.0	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	E1	16	2	0.2	1.2	0.1	0.2	0.7	2.3	3.0	5.5	(D)	(NA)	(NA)
2391	Curtains and draperies -----	E1	11	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
24	Lumber and wood products -----	E2	45	6	0.6	6.7	0.5	1.0	5.4	11.1	15.0	25.9	0.8	0.4	4.4
243	Millwork, plywood, and structural members -----	E2	23	5	0.5	4.6	0.4	0.7	3.7	7.9	10.1	17.9	0.3	0.2	2.6
2434	Wood kitchen cabinets -----	E2	13	3	0.3	2.8	0.2	0.4	2.3	4.4	3.9	8.3	0.1	AA	(D)
2439	Structural wood members, n.e.c. -----	E4	6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
25	Furniture and fixtures -	E3	24	5	0.3	3.4	0.3	0.5	2.5	6.8	5.6	12.1	(D)	0.2	2.6
251	Household furniture -----	E1	12	2	0.2	1.5	0.2	0.3	1.2	3.4	3.0	6.3	(D)	0.2	2.1
27	Printing and publishing -----	E1	141	19	2.1	22.7	1.4	2.5	13.9	56.3	24.5	80.5	2.6	1.5	20.1
2711	Newspapers -----	-	38	8	1.0	10.4	0.6	1.1	6.5	30.3	9.9	40.1	1.1	1.0	18.6
275	Commercial printing -----	E1	76	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	5.6
2751	Commercial printing, letterpress -----	E2	50	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2752	Commercial printing, lithographic -----	E1	24	4	0.3	3.5	0.3	0.5	2.7	6.7	3.5	8.8	0.2	(NA)	(NA)
28	Chemicals and allied products -----	-	27	10	0.9	15.1	0.6	1.3	9.3	55.7	52.2	109.8	8.4	0.8	35.5
281	Industrial inorganic chemicals -	-	9	4	0.5	8.5	0.3	0.7	5.2	30.9	30.9	63.2	5.8	0.5	16.3
2812	Alkalies and chlorine -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2819	Industrial inorganic chemicals, n.e.c. -----	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
286	Industrial organic chemicals -	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	E1	22	4	0.5	5.2	0.4	0.7	3.0	11.7	10.5	21.2	0.7	(NA)	(NA)
3079	Miscellaneous plastics products -----	E2	21	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	72	21	1.7	26.3	1.1	2.3	17.3	62.1	66.4	127.9	6.7	1.4	35.8
3241	Cement, hydraulic -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
327	Concrete, gypsum, and plaster products -----	-	53	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	27.5
3273	Ready-mixed concrete -----	-	28	9	0.6	11.7	0.3	0.6	6.1	27.0	24.8	51.8	2.4	0.5	12.9
3275	Gypsum products -----	-	3	3	0.4	6.0	0.3	0.7	4.9	13.9	18.5	32.5	1.7	0.4	7.5
329	Miscellaneous nonmetallic mineral products -----	-	8	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3293	Gaskets, packing, and sealing devices -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
33	Primary metal industries -----	-	12	3	1.1	17.1	0.8	1.4	11.7	41.3	61.9	99.4	(D)	EE	(D)
333	Primary nonferrous metals -	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3331	Primary copper -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
335	Nonferrous rolling and drawing -	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3356	Nonferrous rolling and drawing, n.e.c. -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
34	Fabricated metal products -----	E4	63	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	11.3
344	Fabricated structural metal products -----	E2	20	5	0.3	4.1	0.2	0.3	2.0	11.7	8.4	19.6	0.2	0.2	4.5
346	Metal forgings and stampings -	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3463	Nonferrous forgings -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	E1	14	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3494	Valves and pipe fittings -----	E4	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
35	Machinery, except electrical -----	E1	68	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	9.1
353	Construction and related machinery -----	E1	11	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
355	Special industry machinery -	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3551	Food products machinery -	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E3	37	2	0.2	2.3	0.2	0.3	1.6	4.4	2.4	6.7	0.6	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E3	37	2	0.2	2.3	0.2	0.3	1.6	4.4	2.4	6.7	0.6	(NA)	(NA)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
36	Electric and electronic equipment -	E2	37	9	1.8	21.2	1.2	2.3	11.5	50.8	46.7	101.7	4.3	0.8	12.5
363	Household appliances -	-	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3639	Household appliances, n.e.c. -	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
365	Communication equipment -	E3	7	4	1.2	14.8	0.7	1.3	7.2	45.9	25.7	66.0	(D)	BB	(D)
3661	Telephone and telegraph apparatus -	E3	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3662	Radio and TV communication equipment -	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
369	Miscellaneous electrical equipment and supplies -	-	6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
37	Transportation equipment -	E3	21	3	0.2	2.3	0.1	0.3	1.5	5.2	4.3	10.6	(D)	(NA)	(NA)
38	Instruments and related products -	-	16	3	0.8	8.9	0.4	0.9	4.3	21.6	5.9	27.8	(D)	BB	(D)
382	Measuring and controlling devices -	-	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3825	Instruments to measure electricity -	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries -	E2	69	16	1.0	10.6	0.8	1.5	6.8	26.3	13.2	39.5	3.3	0.4	7.2
394	Toys and sporting goods -	E1	19	2	0.3	3.0	0.3	0.5	2.2	7.6	3.6	11.5	(D)	(NA)	(NA)
3949	Sporting and athletic goods, n.e.c. -	-	9	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
399	Miscellaneous manufactures -	E2	32	12	0.6	6.4	0.4	0.8	3.8	15.9	7.7	23.2	(D)	AA	(D)
3993	Signs and advertising displays -	-	13	6	0.3	4.2	0.2	0.4	2.5	10.6	2.5	12.8	(D)	(NA)	(NA)
3999	Manufacturing industries, n.e.c. -	E6	18	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
-	Administrative and auxiliary -	-	27	8	0.5	6.7	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Las Vegas SMSA -----	-	285	52	5.4	72.9	3.6	6.9	45.7	166.5	184.3	354.7	16.4	4.3	94.9
20	Food and kindred products --	E1	23	8	0.6	8.4	0.3	0.6	3.3	19.8	32.4	52.3	1.6	0.7	13.0
24	Lumber and wood products --	E1	13	4	0.4	3.4	0.3	0.5	2.7	5.9	6.8	12.7	0.2	(NA)	(NA)
28	Chemicals and allied products -----	-	11	5	0.6	10.9	0.4	0.9	7.2	34.6	40.8	75.8	(D)	0.6	24.1
399	Miscellaneous manufactures -----	E2	15	6	0.3	4.1	0.2	0.5	2.5	9.9	3.4	13.0	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Reno SMSA-----	-	303	73	6.8	85.8	4.4	8.7	47.3	236.0	192.0	418.6	22.7	3.5	71.0
20	Food and kindred products --	-	15	8	0.6	8.1	0.3	0.7	4.1	40.4	62.9	103.4	4.4	0.4	8.3
25	Furniture and fixtures-----	E2	10	4	0.3	2.7	0.2	0.4	2.0	5.3	4.1	9.1	0.3	(NA)	(NA)
39	Miscellaneous manufacturing industries ---	E1	31	6	0.5	4.5	0.4	0.7	3.1	11.9	6.4	18.6	0.9	(NA)	(NA)
--	Administrative and auxiliary --	-	19	7	0.4	5.4	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
 (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Clark County (Coextensive with Las Vegas, Nev., SMSA; see table 6.)														
	Washoe County (Coextensive with Reno, Nev., SMSA; see table 6.)														
	Carson City (Independent city) -----	-	58	10	1.0	10.4	0.7	1.3	5.0	23.6	18.6	42.2	2.4	0.5	8.2

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Carson City -----	-	58	10	1.0	10.4	0.7	1.3	6.0	23.6	18.6	42.2	2.4	(NA)	(NA)
	Henderson -----	-	28	10	1.9	28.5	1.3	2.7	19.2	56.2	91.1	163.5	8.8	0.8	29.1
	Reno -----	-	163	40	4.0	49.8	2.5	5.0	26.3	140.5	84.0	214.2	11.1	2.0	42.3
	Sparks -----	-	114	28	2.3	28.5	1.5	2.8	15.4	79.9	90.1	168.9	10.1	0.7	15.9

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40's
NEVADA	729	49	-	3	25	45	24	3	141	27	2	22	3	72	12	63	68	37	21	16	69	27
1 TO 4 EMPLOYEES	369	14	-	1	15	19	10	-	92	6	2	12	2	27	6	34	43	22	14	8	34	6
5 TO 9 EMPLOYEES	117	4	-	-	6	12	6	1	12	8	-	3	-	16	2	11	10	3	2	4	10	7
10 TO 19 EMPLOYEES	96	11	-	-	2	8	3	-	18	3	-	3	1	13	1	9	8	3	2	1	9	6
20 TO 49 EMPLOYEES	78	8	-	1	1	3	4	2	8	3	-	1	-	13	-	7	2	3	1	2	14	5
50 TO 99 EMPLOYEES	34	8	-	-	-	1	1	-	6	4	-	2	-	2	1	2	2	2	2	-	2	-
100 TO 249 EMPLOYEES	27	2	-	-	-	2	1	-	3	3	-	-	-	6	-	3	1	1	-	-	-	-
250 TO 999 EMPLOYEES	3	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	1	-	1	-	-
CHURCHILL COUNTY	12	2	-	-	-	-	-	-	3	-	-	2	2	1	1	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	11	2	-	-	-	-	-	-	3	-	-	2	2	1	1	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLARK COUNTY	285	23	-	1	11	13	10	1	60	11	1	7	1	35	2	28	19	15	8	3	31	5
1 TO 19 EMPLOYEES	233	15	-	1	10	9	9	1	53	6	1	7	1	23	1	27	19	13	8	3	22	4
20 TO 99 EMPLOYEES	39	7	-	-	1	2	1	-	5	2	-	-	-	10	-	1	-	1	-	-	8	1
100 TO 249 EMPLOYEES	10	1	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-
DOUGLAS COUNTY	15	-	-	-	-	6	-	-	2	1	-	1	-	-	-	-	1	1	1	1	1	-
1 TO 19 EMPLOYEES	13	-	-	-	-	5	-	-	2	1	-	1	-	-	-	-	1	1	1	-	1	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
ELKO COUNTY	12	1	-	-	-	2	1	-	4	-	-	-	-	2	-	-	1	-	-	1	-	-
1 TO 19 EMPLOYEES	10	1	-	-	-	2	1	-	3	-	-	-	-	2	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-
ESMERALDA COUNTY	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HUMBOLDT COUNTY	7	2	-	-	-	-	-	-	3	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LANDER COUNTY	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
LINCOLN COUNTY	2	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
LYON COUNTY	9	2	-	-	-	-	-	-	1	-	-	-	-	4	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	8	2	-	-	-	-	-	-	1	-	-	-	-	3	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
MINERAL COUNTY	4	-	-	-	-	1	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	1	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-
NYE COUNTY	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	1	-
PERSHING COUNTY	6	1	-	-	-	1	-	-	1	-	-	-	-	-	-	-	1	1	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	-	1	-	-	1	-	-	-	-	-	-	-	1	1	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOREY COUNTY	4	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
WASHOE COUNTY	303	15	-	2	14	17	10	2	53	7	1	8	-	17	4	29	39	18	10	7	31	19
1 TO 19 EMPLOYEES	230	7	-	1	13	16	6	-	44	4	1	5	-	12	4	21	33	12	7	7	25	12
20 TO 99 EMPLOYEES	57	7	-	1	1	1	3	2	6	3	-	2	-	3	-	6	3	4	3	-	5	7
100 TO 249 EMPLOYEES	13	1	-	-	-	-	1	-	2	-	-	1	-	2	-	2	3	2	-	-	1	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2	-	-	-	-
WHITE PINE COUNTY	7	-	-	-	-	2	-	-	1	1	-	-	-	1	1	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	5	-	-	-	-	2	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CARSON CITY (INDEPENDENT C	58	1	-	-	-	3	3	-	7	4	-	4	-	9	3	4	4	2	2	4	5	3
1 TO 19 EMPLOYEES	48	1	-	-	-	3	3	-	6	3	-	3	-	6	3	1	4	1	2	3	4	3
20 TO 99 EMPLOYEES	7	-	-	-	-	-	-	-	1	1	-	-	-	2	-	1	-	-	-	1	1	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

*Only those counties and size classes that include data for manufacturing establishments are shown.

New Hampshire

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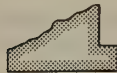
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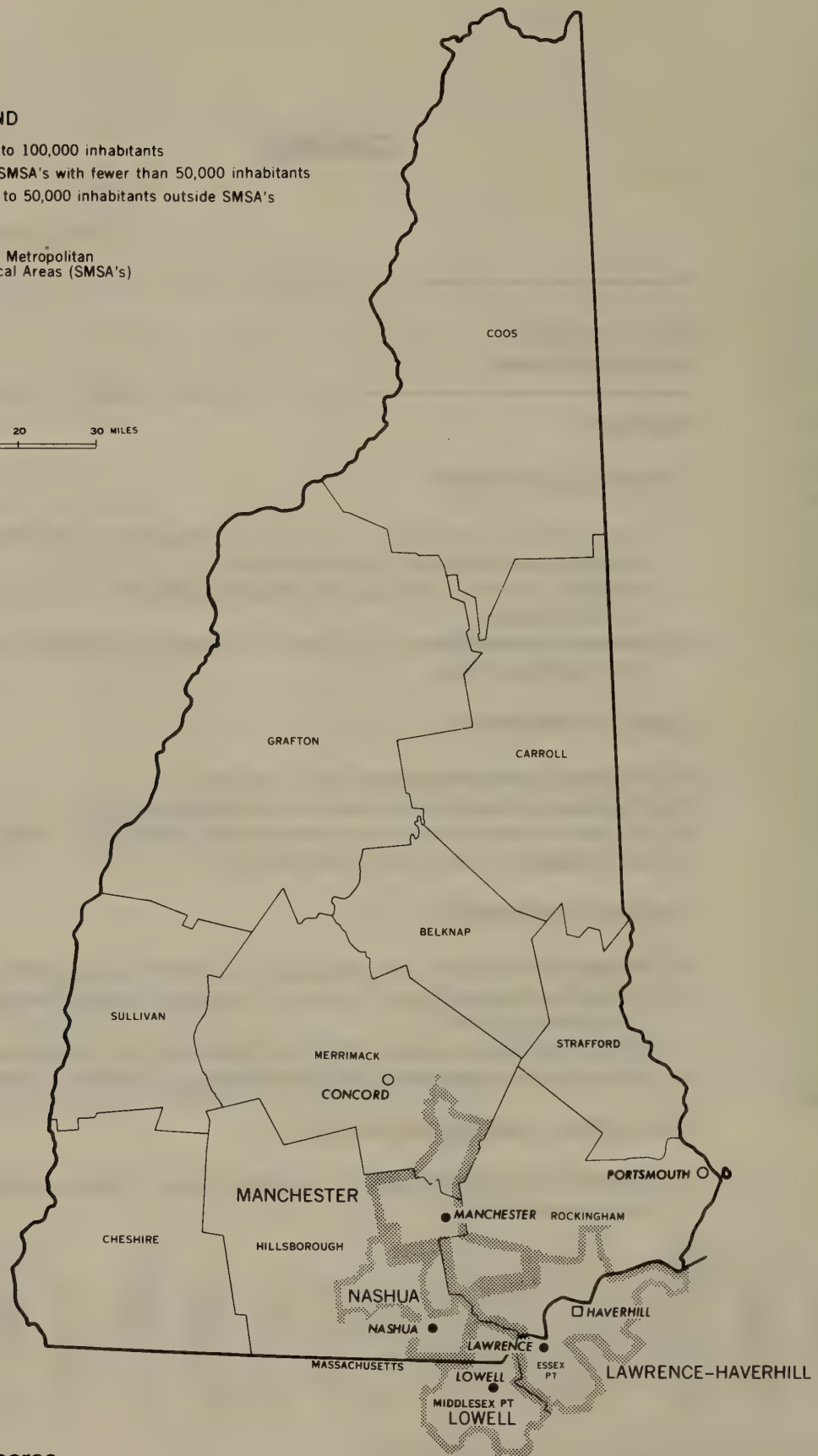
NEW HAMPSHIRE

LEGEND

- Places of 50,000 to 100,000 inhabitants
- Central cities of SMSA's with fewer than 50,000 inhabitants
- Places of 25,000 to 50,000 inhabitants outside SMSA's



Standard Metropolitan
Statistical Areas (SMSA's)



SUMMARY OF FINDINGS

In 1977, 95.3 thousand persons were employed in New Hampshire's manufacturing establishments. This figure represented an increase of 6 percent from the 1972 figure of 89.7 thousand workers.

The total value added by manufacture for the State amounted to \$2,175 million in 1977, an increase of approximately 70 percent from the 1972 figure of \$1,279 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were electronic equipment; machinery, except electrical; leather and leather products; and rubber and miscellaneous plastics products. They accounted for approximately 46 percent of the State's 1977 employment. The order has shifted from 1972 when industry groups leather and leather products; electronic equipment; machinery, except electrical; and textile mill products accounted for approximately 47 percent of the State's employment.

The most important counties in the State ranked by employment were Hillsborough, Strafford, Rockingham, and Merrimack. They accounted for approximately 71 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 73 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 1 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
New Hampshire:						
1977.....	95.3	1,029.0	94.2	1,008.1	1.1	20.9
1972.....	89.7	663.2	88.9	654.3	.8	8.9
1967.....	94.9	512.6	94.6	509.9	.3	2.7
1963.....	84.1	378.9	83.4	373.8	.7	5.1
STANDARD CONSOLIDATED STATISTICAL AREA						
Boston-Lawrence-Lowell, Mass.-N.H.:						
1977.....	341.6	4,609.0	313.0	4,039.7	28.6	569.3
1972.....	328.2	3,124.1	299.7	2,724.3	28.5	399.8
STANDARD METROPOLITAN STATISTICAL AREAS						
Lawrence-Haverhill, Mass.-N.H.:						
1977.....	38.1	466.6	37.4	449.8	.7	16.8
1972.....	39.3	337.1	38.3	322.9	1.0	14.2
1967.....	39.9	245.3	39.6	240.1	.4	5.2
1963.....	42.0	214.3	(D)	(D)	(D)	(D)
Lowell, Mass.-N.H.:						
1977.....	23.1	277.5	21.4	241.1	1.7	36.4
1972.....	22.4	187.0	20.6	162.1	1.8	24.9
1967.....	22.6	134.8	20.8	116.3	1.8	18.5
1963.....	21.1	102.6	(D)	(D)	(D)	(D)
Manchester:						
1977.....	17.8	173.4	17.5	166.4	.3	7.0
1972.....	18.4	124.3	(D)	(D)	(D)	(D)
1967.....	18.0	90.8	(D)	(D)	(D)	(D)
1963.....	16.9	71.9	(D)	(D)	(D)	(D)
Nashua:						
1977.....	19.7	258.9	19.5	255.6	.2	3.3
1972.....	18.4	165.0	18.4	165.0	-	-

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers							Comparative indexes and U.S. employment			
												United States			
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	Percent of U.S. manufacturing employment (per cent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
NEW HAMPSHIRE															
1977 CENSUS.	1 825	623	95.3	1 029.0	72.0	138.0	645.3	2 174.7	1 893.7	4 032.3	162.0	.49	100	100	19 596.9
1976 ASM....	(NA)	(NA)	87.8	883.2	65.7	124.6	540.4	1 832.4	1 683.9	3 495.4	137.6	.47	92	96	18 753.0
1975 ASM....	(NA)	(NA)	83.4	795.3	62.3	118.2	483.5	1 587.1	1 428.7	3 046.3	97.2	.46	87	94	18 302.2
1974 ASM....	(NA)	(NA)	91.3	783.6	69.3	130.9	500.5	1 578.3	1 494.5	3 053.4	104.0	.46	96	102	19 844.8
1973 ASM....	(NA)	(NA)	93.4	735.8	70.1	134.4	452.6	1 462.3	1 228.6	2 642.6	102.0	.47	98	102	19 897.9
1972 CENSUS.	1 434	566	89.7	663.2	67.7	131.4	414.0	1 278.6	1 034.2	2 288.7	99.1	.47	94	98	19 028.7
1971 ASM....	(NA)	(NA)	81.9	576.4	60.0	117.4	356.2	1 088.7	926.3	2 021.2	79.7	.45	86	94	18 363.1
1970 ASM....	(NA)	(NA)	89.9	586.8	67.2	133.9	368.0	1 062.1	928.6	1 965.5	73.2	.47	94	99	19 217.2
1969 ASM....	(NA)	(NA)	94.4	567.7	75.9	149.8	394.4	1 006.8	921.9	1 929.8	102.4	.47	99	103	20 035.5
1968 ASM....	(NA)	(NA)	95.6	550.2	76.5	153.4	384.8	1 007.1	899.6	1 891.0	54.0	.49	100	100	19 527.6
1967 CENSUS.	1 481	566	94.9	512.6	76.6	151.0	364.3	931.9	802.8	1 716.8	75.6	.49	100	99	19 323.2
1966 ASM....	(NA)	(NA)	96.3	483.7	78.0	156.5	345.3	866.1	766.9	1 636.3	72.5	.51	101	98	19 024.5
1965 ASM....	(NA)	(NA)	90.8	435.6	74.1	148.9	314.1	782.9	716.4	1 485.1	39.8	.50	95	92	18 010.2
1964 ASM....	(NA)	(NA)	85.0	398.2	69.3	138.3	284.6	688.2	672.0	1 352.5	40.5	.49	89	89	17 268.5
1963 CENSUS.	1 509	546	84.1	378.9	68.6	135.1	271.8	636.1	(NA)	(NA)	30.3	.50	88	87	16 958.4
BOSTON-LAWRENCE-LOWELL, MASS.-N.H., SCSA															
1977 CENSUS.	6 478	2 254	341.6	4 609.0	211.7	410.7	2 252.0	9 387.0	8 028.7	17 260.2	522.0	1.74	100	100	19 596.9
1972 CENSUS.	6 102	2 236		3 124.1	206.5	397.5	1 566.4	6 161.5	4 873.3	10 891.2	289.6	1.72	96	98	19 028.7

(NA) Not available.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
NEW HAMPSHIRE									
1977 CENSUS.....	10 795	75	1 918	4.68	47	72	22 815	47	15.76
1976 ASM.....	10 059	75	1 896	4.34	48	73	20 870	48	14.71
1975 ASM.....	9 536	75	1 897	4.09	47	73	19 030	50	13.43
1974 ASM.....	8 583	76	1 889	3.82	49	75	17 287	50	12.06
1973 ASM.....	7 878	75	1 917	3.37	46	74	15 656	50	10.88
1972 CENSUS.....	7 394	75	1 941	3.15	45	74	14 254	52	9.73
1971 ASM.....	7 038	73	1 957	3.03	46	74	13 293	53	9.27
1970 ASM.....	6 527	75	1 993	2.75	47	77	11 814	55	7.93
1969 ASM.....	6 014	80	1 974	2.63	48	77	10 665	56	6.72
1968 ASM.....	5 755	80	2 005	2.51	48	77	10 535	55	6.57
1967 CENSUS.....	5 401	81	1 971	2.41	47	77	9 820	55	6.17
1966 ASM.....	5 023	81	2 006	2.21	47	76	8 994	56	5.53
1965 ASM.....	4 797	82	2 009	2.11	48	78	8 622	56	5.26
1964 ASM.....	4 685	82	1 996	2.06	50	79	8 096	58	4.98
1963 CENSUS.....	4 505	82	1 969	2.01	(NA)	(NA)	7 564	60	4.71
BOSTON-LAWRENCE-LOWELL, MASS.-N.H., SCSA									
1977 CENSUS.....	13 494	62	1 940	5.48	47	73	27 483	49	22.86
1972 CENSUS.....	9 519	63	1 925	3.94	45	73	18 774	51	15.50

Note: For qualifications to data, see footnotes on table 2a.

(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹ -----	number ----	1 825	1 434
With 1 to 19 employees -----	do -----	1 202	868
With 20 to 99 employees -----	do -----	405	351
With 100 employees or more -----	do -----	218	215
All employees, average for year ¹ -----	1,000 -----	95.3	89.7
Payroll for year, all employees ¹ -----	mil. dollars --	1 029.0	663.2
Production workers:			
Average for year -----	1,000 -----	72.0	67.7
March -----	do -----	69.6	65.7
May -----	do -----	71.4	67.0
August -----	do -----	73.0	69.1
November -----	do -----	73.6	69.0
Hours -----	millions ----	138.0	131.4
January to March -----	do -----	33.5	32.1
April to June -----	do -----	34.8	33.5
July to September -----	do -----	33.9	32.1
October to December -----	do -----	35.9	33.7
Wages-----	mil. dollars --	645.3	414.0
Cost of materials, etc. ² -----	do -----	1 893.7	1 034.2
Materials, parts, containers, etc., consumed -----	do -----	1 662.5	905.3
Resales-----	do -----	87.1	51.8
Fuels consumed -----	do -----	51.7	17.2
Purchased electric energy -----	do -----	41.9	18.1
Contract work -----	do -----	50.5	41.8
Value of shipments, including resales ² -----	do -----	4 032.3	2 288.7
Value of resales -----	do -----	114.0	65.3
Value added by manufacture -----	do -----	2 174.7	1 278.6
Manufacturers' inventories:			
Beginning of year -----	do -----	575.8	315.2
Finished products -----	do -----	165.5	99.2
Work in process -----	do -----	195.3	114.0
Materials, supplies, fuel, etc.-----	do -----	215.0	102.0
End of year -----	do -----	635.6	350.7
Finished products -----	do -----	190.5	106.4
Work in process -----	do -----	208.2	127.8
Materials, supplies, fuel, etc.-----	do -----	237.0	116.5
Capital expenditures for plant and equipment -----	do -----	168.6	102.6
New capital expenditures -----	do -----	162.0	99.1
New buildings and other structures-----	do -----	39.5	30.7
New machinery and equipment-----	do -----	122.5	68.4
Used capital expenditures -----	do -----	6.6	3.5

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Including central administrative offices and auxiliaries (for definition, see appendix B).

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	27.2	9
Beginning of year.....	1,240.4	1	Buildings and other structures.....	10.7	10
New capital expenditures.....	161.7	7	Machinery and equipment.....	16.5	3
Used capital expenditures.....	(8.3)	21			
Retirements.....	50.8	10	Depreciation charges during 1977:		
End of year.....	1,359.5	1	Total.....	92.7	3
Buildings and other structures:			Buildings and other structures.....	17.5	4
Beginning of year.....	366.3	3	Machinery and equipment.....	75.2	3
New capital expenditures.....	(46.6)	17			
Used capital expenditures.....	(3.6)	46	Supplemental labor costs:		
Retirements.....	9.4	10	Total.....	172.0	1
End of year.....	407.0	5	Legal costs.....	79.1	2
Machinery and equipment:			Voluntary costs.....	92.9	2
Beginning of year.....	874.1	1			
New capital expenditures.....	115.0	4	Purchased services:		
Automobiles, trucks, etc., for highway use...	2.6	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	2.6	(NA)	Buildings and other structures.....	6.2	12
All other.....	89.8	(NA)	Response coverage ratio (percent).....	56	(X)
New machinery and equipment, n.s.k.....	20.0	(NA)	Machinery.....	(19.6)	16
Used capital expenditures.....	4.7	13	Response coverage ratio (percent).....	62	(X)
Retirements.....	41.4	10	Cost of purchased communication services.....	(14.4)	15
End of year.....	952.5	1	Response coverage ratio (percent).....	57	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities and Towns: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area		1977										1972		
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		E1 Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
New Hampshire-----	-	1 825	623	95.3	1 029.0	72.0	138.0	645.3	2 174.7	1 893.7	4 032.3	152.0	89.7	1 278.6
STANDARD CONSOLIDATED STATISTICAL AREAS														
Boston-Lawrence-Lowell, Mass.-N.H. ----	-	6 478	2 254	341.6	4 609.0	211.7	410.7	2 252.0	9 387.0	8 028.7	17 260.2	522.0	347.2	6 161.5
Portion in New Hampshire-----	E1	80	20	1.6	16.3	1.1	2.0	8.8	32.4	27.9	60.6	3.5	(NA)	(NA)
Portion in Massachusetts-----	-	6 398	2 234	339.9	4 592.7	210.6	408.7	2 243.3	9 354.6	8 000.8	17 199.6	518.5	(NA)	(NA)
STANDARD METROPOLITAN STATISTICAL AREAS														
Lawrence-Haverhill, Mass.-N.H.-----	-	580	218	38.1	466.6	27.9	53.7	280.1	1 100.7	916.4	1 994.6	68.1	39.3	739.5
Portion in New Hampshire-----	E2	74	19	1.5	15.8	1.0	1.9	8.4	31.5	27.3	59.1	3.4	1.5	20.0
Portion in Massachusetts-----	-	506	199	36.6	450.9	26.9	51.9	271.7	1 069.2	889.1	1 935.4	64.7	37.8	719.6
Lowell, Mass.-N.H.-----	-	364	154	23.1	277.5	15.1	28.8	145.0	530.6	492.7	1 007.4	29.0	22.4	421.7
Portion in New Hampshire-----	E5	6	1	0.1	0.5	0.1	0.1	0.4	0.9	0.5	1.5	0.1	(Z)	(NA)
Portion in Massachusetts-----	-	358	153	23.0	277.0	15.0	28.7	144.6	529.7	492.2	1 006.0	28.9	22.3	421.3
Manchester-----	-	271	104	17.8	173.4	13.8	26.0	104.2	350.9	312.6	655.2	13.8	18.4	244.1
Nashua-----	-	265	117	19.7	258.9	12.6	25.1	142.4	528.2	503.5	1 036.7	44.8	18.4	322.6
COUNTIES														
Belknap-----	-	106	37	3.8	36.4	3.0	5.8	24.4	76.9	52.5	128.1	3.8	4.0	56.2
Carroll-----	E1	58	12	1.3	10.6	1.0	1.8	7.1	27.4	22.0	48.9	(D)	0.9	10.5
Cheshire-----	-	172	59	7.4	79.3	5.5	10.4	47.3	173.1	129.3	296.8	13.1	6.5	100.4
Coos-----	-	92	22	5.1	56.2	4.2	7.5	42.8	98.7	203.8	300.9	(D)	3.9	52.9
Grafton-----	-	138	40	5.5	50.3	4.4	8.3	33.0	117.9	74.7	190.8	9.2	5.4	54.2
Hillsborough-----	-	556	224	37.3	434.5	26.1	50.7	248.2	898.3	819.8	1 714.7	59.1	37.2	570.0
Merrimack-----	-	192	68	8.7	85.4	6.9	13.5	56.9	157.1	165.9	319.4	6.6	7.9	101.7
Rockingham-----	-	290	85	10.7	114.7	8.2	15.7	70.1	260.0	212.2	464.5	19.8	9.1	123.3
Stratford-----	-	117	45	10.8	107.9	8.9	16.6	76.3	227.0	145.5	368.0	16.1	11.1	146.8
Sullivan-----	-	104	31	4.8	53.6	3.9	7.7	39.3	138.3	67.9	200.1	11.8	3.8	62.6
CITIES AND TOWNS														
Berlin-----	-	29	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Claremont-----	-	39	17	2.6	28.3	2.0	3.8	20.9	84.6	50.8	130.4	9.1	2.2	43.8
Concord-----	-	69	24	4.7	47.0	3.6	7.2	29.8	85.6	79.8	163.1	3.1	4.6	59.4
Derry town-----	-	29	7	1.4	11.3	1.3	2.3	8.4	22.3	22.5	44.4	1.9	1.1	9.3
Dover-----	-	46	16	3.7	38.7	2.8	5.5	24.6	65.5	50.2	114.4	(D)	5.0	52.2
Exeter town-----	-	23	8	1.2	13.5	1.0	2.0	8.8	29.9	19.0	47.9	3.5	0.9	14.3
Farmington town-----	-	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Franklin-----	E6	17	8	0.9	8.8	0.7	1.3	6.5	12.9	17.2	29.5	0.3	0.9	5.3
Hudson town-----	-	44	12	2.0	20.6	1.0	2.0	8.9	39.2	60.4	97.3	4.7	(D)	(D)
Keene-----	-	49	22	3.9	46.9	2.6	5.0	23.9	94.8	49.3	139.5	5.0	3.6	60.3
Laconia-----	-	63	23	2.7	25.2	2.1	4.0	16.3	52.1	37.2	87.3	2.6	3.0	43.0
Lebanon-----	-	33	11	1.3	14.0	1.0	1.9	8.5	33.9	19.8	52.6	2.1	1.0	14.7
Littleton town-----	-	20	8	1.4	8.8	1.1	2.0	6.1	25.1	19.5	43.7	1.2	1.9	12.7
Manchester-----	-	173	75	14.4	142.7	11.0	20.7	83.2	295.1	260.7	548.4	10.4	15.9	215.6
Milford town-----	-	33	15	1.5	19.1	1.1	2.2	11.3	34.4	25.9	59.6	4.2	1.4	19.7
Nashua-----	-	153	77	13.6	180.6	8.8	17.6	100.3	368.6	327.2	700.0	22.7	15.5	255.2
Newmarket town-----	-	10	5	0.7	5.5	0.6	1.1	3.6	11.5	10.3	21.5	(D)	0.6	6.9
Newport town-----	-	34	11	2.0	23.1	1.7	3.6	16.9	48.7	12.5	60.1	2.2	1.3	16.1
Portsmouth-----	-	30	13	1.5	15.4	1.2	2.3	9.2	63.6	53.6	113.5	3.3	1.3	21.7
Rochester-----	-	35	15	2.6	21.2	2.3	4.0	16.0	44.1	38.4	80.8	3.9	1.5	21.9
Salem town-----	E2	26	7	0.6	7.2	0.4	0.8	3.0	15.8	15.8	30.9	2.4	0.7	8.3
Somersworth-----	-	15	8	3.1	32.5	2.6	4.8	23.9	88.2	29.5	116.5	(D)	3.0	54.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ⁴ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	All industries -----	-	1 925	623	95.3	1 029.0	72.0	138.0	645.3	2 174.7	1 893.7	4 032.3	162.0	89.7	1 278.6
20	Food and kindred products -----	-	90	25	2.4	31.6	1.6	3.1	17.2	107.5	229.9	336.4	17.0	2.8	86.2
201	Meat products -----	E2	11	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	8.9
2011	Meat packing plants -----	-	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2013	Sausages and other prepared meats -----	E4	5	3	0.2	1.9	0.1	0.2	1.3	3.9	17.6	21.1	(D)	(NA)	(NA)
202	Dairy products -----	E3	24	5	0.3	3.8	0.2	0.3	1.4	8.0	30.5	38.5	0.5	0.6	11.8
2026	Fluid milk -----	E3	16	4	0.3	3.1	0.1	0.2	1.2	6.5	25.8	32.2	0.4	0.5	11.0
205	Bakery products -----	-	15	3	0.4	5.6	0.2	0.4	2.0	10.7	8.3	19.0	0.4	BB	(D)
2051	Bread, cake, and related products -----	-	15	3	0.4	5.6	0.2	0.4	2.0	10.7	8.3	19.0	0.4	BB	(D)
208	Beverages -----	-	12	8	0.7	13.0	0.4	1.0	8.4	69.7	85.3	154.6	13.5	0.8	44.2
2082	Malt beverages -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2086	Bottled and canned soft drinks -----	-	8	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
209	Miscellaneous foods and kindred products -----	-	18	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2092	Fresh or frozen packaged fish -----	-	7	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
22	Textile mill products --	-	57	39	6.1	54.7	5.2	10.4	39.5	125.7	97.3	219.8	4.8	7.8	93.0
2221	Weaving mills, manmade fiber and silk -----	-	3	3	0.6	4.7	0.5	1.0	3.8	6.1	9.0	14.2	(D)	0.8	7.1
2231	Weaving and finishing mills, wool -----	-	6	6	1.7	15.8	1.6	3.2	12.9	37.3	19.3	56.0	1.3	1.3	16.7
2241	Narrow fabric mills -----	-	13	9	0.8	6.0	0.7	1.4	4.6	18.8	8.2	26.9	0.5	0.7	12.7
225	Knitting mills -----	-	8	6	1.6	13.9	1.2	2.4	8.7	26.0	31.0	55.7	0.7	2.2	26.0
2252	Hosiery, n.e.c. -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2253	Knit outerwear mills -----	-	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	19.1
2257	Circular knit fabric mills -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
226	Textile finishing, except wool -----	-	6	4	0.5	5.5	0.4	0.8	3.6	21.6	8.2	29.6	1.2	BB	(D)
2262	Finishing plants, synthetics -----	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
228	Yarn and thread mills -----	E3	12	5	0.4	3.4	0.4	0.9	3.0	5.3	6.9	12.2	0.2	CC	(D)
2281	Yarn mills, except wool -----	E1	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
229	Miscellaneous textile goods -----	-	9	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2291	Felt goods, except woven felts and hats -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
23	Apparel and other textile products -----	E4	49	34	2.5	16.4	2.2	3.9	12.6	30.5	18.2	48.1	0.8	2.1	17.4
232	Men's and boys' furnishings -----	E4	11	10	0.6	3.9	0.6	1.0	3.2	8.8	3.8	12.2	(D)	BB	(D)
2329	Men's and boys' clothing, n.e.c. -----	-	5	5	0.3	1.7	0.3	0.5	1.5	3.5	0.3	3.6	(D)	(NA)	(NA)
233	Women's and misses' outerwear -----	E1	19	16	0.9	6.0	0.8	1.5	4.5	11.3	5.9	17.0	(D)	0.9	5.3
2335	Women's and misses' dresses -----	E6	7	5	0.2	1.3	0.2	0.4	1.1	1.8	0.6	2.4	0.1	0.3	1.5
2339	Women's and misses' outerwear, n.e.c. -----	-	8	8	0.5	3.7	0.5	0.8	2.5	8.2	2.6	10.8	0.2	BB	(D)
234	Women's and children's undergarments -----	E0	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2341	Women's and children's underwear -----	E0	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
236	Children's outerwear -----	E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2363	Children's coats and suits -----	E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	-	11	4	0.3	2.1	0.2	0.4	1.4	3.0	2.7	5.8	(D)	0.3	2.9
24	Lumber and wood products -----	E1	355	57	4.4	35.8	3.8	5.8	29.0	87.3	115.9	202.6	(D)	4.5	50.0
2411	Logging camps and logging contractors -----	E2	150	3	0.5	5.3	0.4	0.7	4.0	13.9	28.4	42.2	1.8	0.7	7.4
242	Sawmills and planing mills -----	E2	105	19	1.3	11.6	1.2	2.3	9.2	24.5	32.1	56.6	5.3	0.8	9.9
2421	Sawmills and planing mills, general -----	E2	95	18	1.2	10.9	1.1	2.1	8.7	23.3	31.0	54.2	5.0	0.7	9.2
243	Millwork, plywood, and structural members -----	-	24	7	0.8	7.1	0.6	1.2	4.9	17.6	25.1	42.6	0.6	1.1	14.4
2431	Millwork -----	-	17	5	0.5	4.5	0.4	0.8	2.8	9.0	16.8	25.8	0.5	0.7	7.0
2434	Wood kitchen cabinets -----	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
244	Wood containers -----	E3	23	7	0.4	2.7	0.4	0.6	2.3	5.8	5.0	10.8	0.4	0.6	4.1
2441	Nailed wood boxes and shooks -----	-	7	4	0.3	1.4	0.2	0.4	1.1	3.1	2.3	5.4	(D)	0.3	2.3
245	Wood buildings and mobile homes -----	E1	11	7	0.5	4.6	0.4	0.7	3.0	11.5	15.8	27.3	(D)	0.4	5.0
2452	Prefabricated wood buildings -----	E1	10	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
249	Miscellaneous wood products -----	-	42	14	0.8	7.4	0.7	1.4	5.5	13.9	9.4	23.0	0.5	1.0	9.3
2499	Wood products, n.e.c. -----	E1	40	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
25	Furniture and fixtures -	E2	61	19	1.7	14.7	1.3	2.6	10.2	33.1	22.5	55.5	(D)	2.0	23.7
251	Household furniture -----	E2	44	14	1.3	10.3	1.1	2.0	7.3	25.3	16.7	41.9	(D)	1.6	17.4
2511	Wood household furniture ---	E2	31	11	1.1	8.7	0.9	1.7	6.1	19.3	13.3	32.3	(D)	1.5	15.5
254	Partitions and fixtures -----	-	14	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.7
2541	Wood partitions and fixtures -	-	12	3	0.2	2.7	0.2	0.4	2.0	4.3	3.6	8.0	0.1	AA	(D)
26	Paper and allied products -----	-	49	31	6.6	89.3	4.9	9.7	55.9	175.1	311.2	480.1	27.1	6.1	118.8
2621	Paper mills, except building paper -----	-	15	11	3.1	40.4	2.6	5.0	30.8	75.6	146.5	221.3	22.0	EE	(D)
2631	Paperboard mills -----	-	5	4	0.2	2.4	0.2	0.3	1.7	5.7	4.7	10.5	(D)	0.3	7.3
264	Miscellaneous converted paper products -----	-	18	10	2.7	40.3	1.7	3.5	19.5	81.4	140.9	216.8	3.8	2.2	60.7
2641	Paper coating and glazing -----	-	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2647	Sanitary paper products -----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2648	Stationery products -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.7
265	Paperboard containers and boxes -----	-	11	6	0.6	6.2	0.4	0.9	3.8	12.4	19.1	31.4	(D)	0.6	9.7
2653	Corrugated and solid fiber boxes -----	-	6	3	0.3	3.0	0.2	0.4	2.0	5.6	9.8	15.4	0.2	AA	(D)
2654	Sanitary food containers -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
27	Printing and publishing -----	-	226	48	5.1	55.2	3.3	5.9	30.9	106.2	67.6	173.2	5.6	4.7	58.5
2711	Newspapers -----	E1	43	17	1.3	15.2	0.5	1.0	6.8	28.4	7.1	35.5	1.5	1.4	19.5
2721	Periodicals -----	-	18	5	0.3	3.1	0.2	0.2	1.1	6.3	11.9	18.1	0.1	0.2	4.6
275	Commercial printing -----	-	117	14	2.0	20.8	1.4	2.7	12.9	36.4	23.1	59.3	(D)	1.6	19.6
2751	Commercial printing, letterpress -----	E3	69	5	0.3	3.5	0.2	0.3	1.8	7.1	4.2	11.2	(D)	BB	(D)
2752	Commercial printing, lithographic -----	-	45	9	1.6	17.0	1.2	2.3	10.9	28.6	18.3	46.8	(D)	1.3	15.2
2761	Manifold business forms -----	-	5	4	0.6	7.3	0.4	0.9	4.9	19.1	12.4	31.2	0.6	CC	(D)
2771	Greeting card publishing -----	-	5	3	0.5	4.4	0.4	0.6	2.5	8.0	10.4	18.5	(D)	BB	(D)
278	Blankbooks and bookbinding --	E3	5	3	0.2	2.0	0.2	0.4	1.6	3.5	1.0	4.5	0.3	(NA)	(NA)
2789	Bookbinding and related work -----	E3	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	31	7	0.8	11.6	0.5	1.1	6.5	36.5	45.9	84.5	3.5	0.7	13.1
282	Plastics materials and synthetics -----	E1	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
286	Industrial organic chemicals ---	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2869	Industrial organic chemicals, n.e.c. -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
289	Miscellaneous chemical products -----	E1	11	2	0.2	2.2	0.1	0.2	0.8	5.3	6.7	12.0	0.5	(NA)	(NA)
30	Rubber and miscellaneous plastics products ----	E1	67	38	7.6	72.8	6.2	11.7	53.1	154.7	141.3	291.9	(D)	6.5	79.3
3021	Rubber and plastics footwear --	-	5	4	1.4	10.4	1.3	2.1	8.9	14.1	19.2	33.1	(D)	FF	(D)
3069	Fabricated rubber products, n.e.c. -----	E4	11	6	0.9	9.6	0.7	1.3	6.1	20.3	22.1	42.3	(D)	BB	(D)
3079	Miscellaneous plastics products -----	-	50	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
31	Leather and leather products -----	-	71	54	11.1	79.9	9.7	16.8	60.5	152.6	158.8	301.8	4.8	12.8	123.1
3111	Leather tanning and finishing --	-	14	10	1.1	11.4	1.0	1.9	8.9	20.4	42.1	61.3	(D)	EE	(D)
3131	Boot and shoe cut stock and findings -----	-	6	4	0.2	0.7	0.1	0.2	0.5	1.0	1.0	2.0	(D)	BB	(D)
314	Footwear, except rubber -----	-	45	38	9.6	65.6	8.5	14.4	49.6	127.3	110.1	231.1	(D)	10.7	97.8
3143	Men's footwear, except athletic -----	-	11	10	2.3	16.5	2.0	3.5	13.2	32.4	34.3	64.8	0.6	FF	(D)
3144	Women's footwear, except athletic -----	-	27	22	6.7	43.9	5.9	9.7	33.1	83.7	68.7	148.4	(D)	7.3	64.4
3149	Footwear, except rubber, n.e.c. -----	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3199	Leather goods, n.e.c. -----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture ³ (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
32	Stone, clay, and glass products -----	-	90	31	2.8	32.0	2.1	4.2	20.4	69.1	45.9	114.8	4.3	2.5	41.5
327	Concrete, gypsum, and plaster products -----	-	48	18	0.8	10.7	0.6	1.2	7.0	25.2	24.9	50.1	2.0	CC	(D)
3272	Concrete products, n.e.c. ---	E3	22	3	0.2	2.1	0.1	0.2	1.2	4.1	2.9	7.0	0.7	AA	(D)
3273	Ready-mixed concrete -----	-	16	11	0.4	5.7	0.3	0.6	3.9	13.2	14.3	27.4	0.9	0.2	7.5
3281	Cut stone and stone products -	-	8	3	0.2	2.5	0.2	0.4	1.6	4.1	2.0	6.0	0.3	BB	(D)
329	Miscellaneous nonmetallic mineral products -----	-	13	7	1.7	16.9	1.3	2.5	10.8	35.7	15.8	51.5	1.8	1.4	17.1
3292	Asbestos products -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3293	Gaskets, packing, and sealing devices -----	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3299	Nonmetallic mineral products, n.e.c. -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
33	Primary metal industries -----	-	39	22	2.7	34.1	2.0	4.1	22.1	67.8	42.2	108.7	(D)	2.5	40.4
331	Blast furnace and basic steel products -----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3315	Steel wire and related products -----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
332	Iron and steel foundries -----	-	9	8	1.4	17.8	1.0	2.1	11.9	33.8	10.6	44.1	(D)	0.9	14.4
3324	Steel investment foundries ---	-	5	4	1.1	14.1	0.7	1.6	8.8	27.5	7.7	34.9	(D)	CC	(D)
3325	Steel foundries, n.e.c. -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
335	Nonferrous rolling and drawing -	-	7	6	0.6	8.3	0.4	0.9	4.1	17.5	21.8	38.4	(D)	0.8	14.8
3357	Nonferrous wire drawing and insulating -----	-	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
336	Nonferrous foundries -----	-	13	6	0.4	5.0	0.3	0.6	3.8	10.6	4.0	14.3	(D)	0.5	6.2
3361	Aluminum foundries -----	-	9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
34	Fabricated metal products -----	E1	133	38	4.7	57.2	3.7	7.6	41.2	114.6	74.4	188.7	(D)	3.6	48.1
342	Cutlery, hand tools, and hardware -----	E1	17	7	0.4	4.7	0.3	0.6	3.3	7.9	6.1	13.8	(D)	BB	(D)
344	Fabricated structural metal products -----	-	43	10	1.6	19.5	1.2	2.4	14.3	39.0	27.8	58.0	(D)	1.5	19.8
3441	Fabricated structural metal --	-	7	3	0.3	2.6	0.2	0.4	2.0	5.0	7.5	13.0	(D)	AA	(D)
3443	Fabricated plate work (boiler shops) -----	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3449	Miscellaneous metal work ---	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
345	Screw machine products, bolts, etc. -----	-	12	4	0.4	4.4	0.2	0.5	2.6	8.9	6.9	16.1	(D)	BB	(D)
3452	Bolts, nuts, rivets, and washers -----	-	5	3	0.3	3.7	0.2	0.4	2.1	7.6	6.2	14.1	(D)	AA	(D)
346	Metal forgings and stampings --	E1	15	6	0.4	4.7	0.4	0.8	3.3	7.1	4.8	11.7	(D)	0.2	4.2
3469	Metal stampings, n.e.c. -----	-	14	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
348	Ordinance and accessories, n.e.c. -----	-	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3484	Small arms -----	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
349	Miscellaneous fabricated metal products -----	E4	17	4	0.7	7.7	0.5	1.0	5.5	9.5	9.9	19.3	0.4	CC	(D)
3494	Valves and pipe fittings -----	E6	5	3	0.5	5.8	0.4	0.8	4.4	6.3	8.1	14.3	(D)	CC	(D)
35	Machinery, except electrical -----	-	225	71	12.7	160.7	8.0	16.0	82.5	319.7	226.4	538.9	26.5	9.8	176.4
353	Construction and related machinery -----	-	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3532	Mining machinery -----	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
354	Metalworking machinery -----	-	40	12	1.8	23.7	1.2	2.0	10.7	56.2	28.2	79.9	3.6	1.4	27.6
3541	Machine tools, metal cutting types -----	-	7	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3544	Special dies, tools, jigs, and fixtures -----	E3	19	2	0.2	3.0	0.2	0.3	2.2	4.2	1.8	6.0	0.3	0.2	2.8
3545	Machine tool accessories ---	-	7	5	0.3	3.6	0.2	0.4	2.1	7.8	3.7	11.1	(D)	BB	(D)
3549	Metalworking machinery, n.e.c. -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
355	Special industry machinery ----	-	34	18	3.1	44.4	1.9	4.2	24.3	77.5	66.5	143.8	2.4	3.5	64.1
3552	Textile machinery -----	-	5	4	0.5	5.0	0.4	0.8	3.7	11.3	4.5	14.6	0.4	1.3	21.7
3554	Paper industries machinery ---	-	8	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3555	Printing trades machinery ---	-	6	3	0.7	10.3	0.3	0.7	4.1	10.4	9.3	19.7	(D)	CC	(D)
356	General industrial machinery ---	-	24	14	3.2	36.8	2.4	5.1	23.3	85.3	31.9	115.9	6.1	2.5	42.2
3562	Ball and roller bearings -----	-	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3569	General industrial machinery, n.e.c. -----	-	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
357	Office and computing machines -----	-	14	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3573	Electronic computing equipment -----	-	10	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3579	Office machines, n.e.c. and typewriters -----	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
35	Machinery, except electrical—Con.														
358	Refrigeration and service machinery -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E2	102	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	7.8
3599	Machinery, except electrical, n.e.c. -----	E2	102	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	7.8
36	Electric and electronic equipment -	-	110	51	12.7	142.9	9.8	18.9	93.7	346.4	160.2	503.7	15.1	12.3	169.3
361	Electric distributing equipment -	-	8	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3613	Switchgear and switchboard apparatus -----	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
362	Electrical industrial apparatus --	-	10	3	0.6	5.4	0.5	0.9	3.6	12.0	7.6	19.4	0.4	0.3	4.7
3621	Motors and generators -----	-	6	2	0.5	4.4	0.4	0.7	2.9	9.5	6.2	15.7	(D)	BB	(D)
364	Electric lighting and wiring equipment -----	-	10	6	1.2	13.7	1.0	1.9	9.4	53.3	20.7	73.4	2.5	EE	(D)
3641	Electric lamps -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3643	Current-carrying wiring devices-----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
366	Communication equipment ----	-	18	12	4.9	71.6	3.3	6.5	44.2	133.9	67.8	205.9	3.7	FF	(D)
3662	Radio and TV communication equipment --	-	17	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
367	Electronic components and accessories -----	-	48	19	4.5	39.5	3.9	7.4	27.1	103.4	34.4	132.9	5.8	6.3	60.1
3675	Electronic capacitors -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3676	Electronic resistors -----	-	5	4	1.3	9.7	1.1	2.2	6.7	15.8	7.6	23.3	(D)	EE	(D)
3678	Electronic connectors -----	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3679	Electronic components, n.e.c. -----	-	33	8	1.9	17.2	1.7	3.1	12.2	62.9	15.7	75.1	4.4	1.0	16.5
369	Miscellaneous electrical equipment and supplies -----	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3699	Electrical equipment and supplies, n.e.c. -----	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
37	Transportation equipment -----	-	27	5	1.8	22.8	1.3	2.8	14.9	43.9	37.7	81.1	(D)	1.8	25.5
371	Motor vehicles and equipment -	-	8	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3714	Motor vehicle parts and accessories -----	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
372	Aircraft and parts -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3724	Aircraft engines and engine parts-----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
373	Ship and boat building and repairing -----	E2	13	2	0.2	1.5	0.1	0.2	1.0	2.8	2.8	5.6	(D)	(NA)	(NA)
38	Instruments and related products -----	-	50	25	6.7	76.3	4.8	9.5	43.0	169.3	76.2	245.5	7.8	4.6	82.7
382	Measuring and controlling devices -----	-	21	13	4.8	51.1	3.6	7.0	30.4	124.0	45.6	168.9	5.9	FF	(D)
3823	Process control instruments -	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3825	Instruments to measure electricity -----	-	14	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3832	Optical instruments and lenses -----	-	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
384	Medical instruments and supplies -----	E1	19	5	0.4	4.2	0.3	0.5	2.1	8.9	9.1	18.2	0.6	BB	(D)
3842	Surgical appliances and supplies -----	E1	11	4	0.3	2.5	0.2	0.4	1.4	4.9	5.6	10.7	0.2	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	53	16	1.8	15.8	1.4	2.7	11.1	27.7	20.2	48.2	3.7	1.9	19.8
394	Toys and sporting goods -----	-	17	5	0.5	3.5	0.4	0.7	2.9	5.9	3.5	9.3	(D)	0.8	5.4
3942	Dolls -----	-	7	3	0.3	1.8	0.2	0.4	1.5	3.2	1.2	4.4	(D)	0.5	2.5
3944	Games, toys, and children's vehicles -----	-	4	2	0.2	1.6	0.2	0.3	1.4	2.5	2.1	4.5	(D)	BB	(D)
396	Costume jewelry and notions --	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3964	Needles, pins, and fasteners -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
399	Miscellaneous manufactures -	E1	34	8	1.0	9.1	0.8	1.5	6.1	15.7	13.2	29.3	(D)	0.8	10.2
3991	Brooms and brushes -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3995	Burial caskets -----	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3999	Manufacturing industries, n.e.c. -----	E2	18	4	0.5	4.2	0.4	0.7	2.8	5.9	5.9	11.7	0.3	BB	(D)
-	Administrative and auxiliary -----	-	17	10	1.1	20.9	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Boston-Lawrence-Lowell, Mass.-N.H., SCSA -----	-	6 478	2 254	341.6	4 609.0	211.7	410.7	2 252.0	9 387.0	8 028.7	17 260.2	522.0	347.2	6 161.5
20	Food and kindred products --	-	392	153	17.4	211.2	11.8	23.2	121.9	543.9	1 232.3	1 775.2	28.2	(NA)	(NA)
2085	Distilled liquor, except brandy -----	-	4	4	0.5	6.3	0.3	0.7	3.3	19.1	43.4	63.2	0.4	(NA)	(NA)
2386	Leather and sheep lined clothing-----	-	8	6	0.7	5.8	0.6	1.1	4.2	10.7	10.8	19.9	(D)	(NA)	(NA)
24	Lumber and wood products--	E1	175	39	3.5	35.1	2.7	4.9	20.5	58.2	80.6	146.8	(D)	(NA)	(NA)
2511	Wood household furniture-----	E3	42	4	0.4	2.8	0.3	0.6	2.2	6.1	7.7	13.4	(D)	(NA)	(NA)
26	Paper and allied products ---	-	156	86	12.1	144.0	9.1	18.2	90.7	299.0	356.2	649.1	(D)	5.8	146.5
2654	Sanitary food containers-----	-	8	6	0.9	9.2	0.8	1.4	6.6	24.7	24.9	49.2	0.8	(NA)	(NA)
27	Printing and publishing -----	-	1 004	225	28.2	376.7	15.4	28.4	182.2	845.8	394.8	1 234.8	(D)	28.0	513.1
28	Chemicals and allied products-----	-	242	71	8.3	122.4	5.1	10.2	61.9	439.7	404.6	839.1	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products-----	-	247	113	13.6	146.9	10.1	19.7	93.3	322.9	340.0	665.5	28.3	15.4	304.7
31	Leather and leather products-----	E1	276	125	15.0	127.2	12.8	22.6	91.7	235.5	319.0	548.8	(D)	20.0	205.2
34	Fabricated metal products---	-	648	220	19.5	249.8	14.8	28.5	164.2	590.0	397.0	990.1	30.5	20.7	434.5
344	Fabricated structural metal products-----	E1	234	71	4.6	60.1	3.5	6.7	37.9	110.7	110.6	224.0	(D)	(NA)	(NA)
3444	Sheet metal work-----	E1	84	26	1.3	17.3	1.0	2.1	11.2	29.6	26.4	56.5	(D)	(NA)	(NA)
346	Metal forgings and stampings-----	E1	63	26	1.8	22.1	1.5	3.0	14.9	41.2	30.8	71.9	1.3	(NA)	(NA)
35	Machinery, except electrical -	-	875	224	39.9	589.9	22.1	44.3	278.4	1 285.8	746.8	2 006.3	73.8	(NA)	(NA)
355	Special industry machinery-----	-	116	41	8.6	127.0	4.3	9.1	53.4	266.3	165.9	427.4	(D)	(NA)	(NA)
3568	Power transmission equipment, n.e.c.-----	-	6	4	0.4	5.6	0.3	0.5	3.1	12.5	6.4	18.5	(D)	(NA)	(NA)
367	Electronic components and accessories-----	E1	224	107	16.2	190.5	11.4	22.3	104.5	381.9	189.3	569.3	(D)	(NA)	(NA)
3694	Engine electrical equipment-----	-	8	8	0.9	9.7	0.7	1.4	5.7	24.6	14.6	38.2	(D)	(NA)	(NA)
3831	Musical instruments-----	E1	24	5	0.4	5.1	0.3	0.6	3.5	12.3	7.4	19.7	(D)	(NA)	(NA)
	Lawrence-Haverhill, Mass.-N.H., SMSA -----	-	580	218	38.1	466.6	27.9	53.7	280.1	1 100.7	915.4	1 994.6	58.1	39.3	739.5
20	Food and kindred products --	E2	40	16	1.2	12.1	0.8	1.5	7.0	29.9	75.9	106.5	2.9	1.0	13.9
202	Dairy products-----	E4	9	7	0.4	4.4	0.2	0.4	2.1	9.3	33.6	43.7	0.3	0.3	3.4
22	Textile mill products-----	-	21	12	3.3	36.4	2.6	5.0	25.0	78.8	104.8	183.8	(D)	3.2	49.9
23	Apparel and other textile products-----	-	29	15	2.1	19.6	1.7	3.2	12.6	40.3	53.4	91.9	0.3	2.5	27.6
2311	Men's and boys' suits and coats-----	-	5	4	1.3	12.9	1.0	2.1	8.4	22.2	23.9	43.9	(D)	1.3	13.9
233	Women's and misses' outerwear-----	-	15	5	0.4	3.5	0.3	0.6	2.1	13.1	13.7	27.1	(D)	(NA)	(NA)
24	Lumber and wood products--	E2	26	6	0.4	4.3	0.3	0.6	2.5	8.5	10.2	18.3	0.6	0.3	4.0
25	Furniture and fixtures-----	-	21	6	0.9	7.7	0.7	1.3	5.3	14.7	12.7	27.2	0.7	0.6	9.2
26	Paper and allied products ---	-	24	15	1.4	17.5	1.1	2.4	12.5	43.8	51.7	95.2	(D)	0.8	17.9
265	Paperboard containers and boxes-----	E1	10	8	0.6	7.3	0.5	1.1	5.0	16.7	13.2	30.0	1.3	0.4	6.4
2651	Folding paperboard boxes-----	E1	3	3	0.3	4.0	0.3	0.6	2.8	7.0	6.2	13.3	1.0	(NA)	(NA)
27	Printing and publishing -----	-	45	8	0.8	7.7	0.4	0.6	3.6	16.5	5.9	22.4	0.4	0.7	11.9

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
		E ¹	All establishments	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)					
	Lawrence-Haverhill, Mass.-N.H., SMSA—Con.													
28	Chemicals and allied products -----	-	17	7	1.1	16.1	0.8	1.5	9.0	112.8	58.7	169.4	2.5	(NA) (NA)
30	Rubber and miscellaneous plastics products -----	E1	40	19	1.9	19.2	1.4	3.1	12.9	42.6	48.7	92.5	3.7	2.4 40.9
3069	Fabricated rubber products, n.e.c. -----	-	8	3	0.3	3.3	0.2	0.5	2.3	4.2	6.5	11.6	(D)	(NA) (NA)
3079	Miscellaneous plastics products -----	E1	28	13	1.4	14.3	1.1	2.4	9.6	35.2	39.5	74.7	3.4	1.3 22.9
31	Leather and leather products -----	-	50	28	3.9	30.4	3.4	5.9	23.0	52.6	55.1	107.1	1.0	5.9 54.9
3111	Leather tanning and finishing -----	E1	11	6	0.4	3.5	0.3	0.6	2.5	7.3	7.5	14.3	0.2	(NA) (NA)
3131	Boot and shoe cut stock and findings -----	E1	19	8	0.6	4.5	0.4	0.8	2.8	9.9	15.7	25.5	(D)	1.0 8.5
314	Footwear, except rubber -----	-	16	12	2.8	20.8	2.5	4.3	16.9	32.6	29.5	62.2	0.5	4.5 38.9
3144	Women's footwear, except athletic -----	-	10	8	2.0	15.8	1.8	3.2	13.0	25.0	23.6	48.6	0.5	3.5 30.9
32	Stone, clay, and glass products -----	-	14	3	0.3	3.2	0.3	0.5	2.1	5.9	5.4	11.2	0.3	0.3 5.4
33	Primary metal industries -----	E3	12	6	0.4	4.4	0.4	0.7	3.4	7.9	11.3	19.1	0.3	(NA) (NA)
34	Fabricated metal products -----	-	43	17	1.6	19.3	1.2	2.4	13.7	44.4	45.6	90.9	4.0	1.5 37.5
344	Fabricated structural metal products -----	-	20	7	0.7	7.9	0.5	0.9	5.3	17.2	11.1	29.6	2.9	0.7 11.1
3443	Fabricated plate work (boiler shops) -----	-	6	2	0.4	4.6	0.3	0.5	3.1	9.3	5.7	16.3	(D)	(NA) (NA)
35	Machinery, except electrical -----	-	82	19	2.4	30.6	1.6	3.2	17.2	87.4	40.3	117.5	3.7	2.3 89.8
355	Special industry machinery -----	E1	19	6	0.7	8.9	0.5	0.9	4.8	14.2	9.4	24.1	1.2	(NA) (NA)
356	General industrial machinery -----	-	6	4	0.3	3.6	0.2	0.3	2.1	9.8	5.6	15.6	0.8	(NA) (NA)
367	Electronic components and accessories -----	E1	33	13	1.8	19.4	1.3	2.6	11.2	44.6	24.2	67.5	4.4	(NA) (NA)
3674	Semiconductors and related devices -----	-	7	5	1.0	11.2	0.8	1.5	6.8	27.3	11.0	37.9	(D)	(NA) (NA)
38	Instruments and related products -----	E1	14	4	0.5	5.7	0.3	0.6	2.3	14.5	7.2	21.2	1.0	(NA) (NA)
	Lowell, Mass.-N.H., SMSA----	-	364	154	23.1	277.5	15.1	28.8	145.0	530.6	492.7	1 007.4	29.0	22.4 421.7
20	Food and kindred products -----	-	22	9	1.2	14.1	0.7	1.4	6.0	35.0	80.5	114.8	2.9	1.4 31.1
22	Textile mill products -----	-	26	22	3.0	32.8	2.3	4.8	20.4	62.6	93.2	151.6	5.6	3.0 48.6
228	Yarn and thread mills -----	-	5	5	0.3	1.8	0.2	0.4	1.3	3.8	4.8	8.6	(D)	(NA) (NA)
23	Apparel and other textile products -----	E1	26	17	1.1	8.3	0.9	1.6	6.1	15.5	14.9	30.5	0.3	1.9 17.3
233	Women's and misses' outerwear -----	E1	11	11	0.6	4.8	0.5	1.0	3.5	8.9	5.2	14.1	0.1	1.1 8.7
24	Lumber and wood products -----	-	14	5	0.3	2.3	0.2	0.4	1.6	4.4	3.5	7.9	0.2	(NA) (NA)
25	Paper and allied products -----	-	13	11	0.8	9.1	0.6	1.3	5.7	17.8	22.4	39.7	0.8	0.9 13.1
27	Printing and publishing -----	-	32	9	2.5	30.2	1.8	3.4	23.3	57.2	27.0	83.9	1.9	2.4 37.2
275	Commercial printing -----	-	20	4	1.4	15.4	1.0	2.0	12.9	31.7	21.9	53.4	(D)	1.4 20.9
30	Rubber and miscellaneous plastics products -----	-	16	9	0.9	8.9	0.8	1.5	5.9	22.4	19.9	43.0	1.7	1.0 14.1
31	Leather and leather products -----	-	8	5	1.3	9.7	1.2	2.1	7.2	20.0	29.3	50.5	(D)	1.6 14.8
32	Stone, clay, and glass products -----	-	12	3	0.3	4.0	0.2	0.4	2.3	8.5	5.7	14.5	0.9	0.5 7.8
34	Fabricated metal products -----	E2	32	11	0.5	5.7	0.4	0.8	3.9	10.4	10.9	21.5	0.6	0.6 7.5
344	Fabricated structural metal products -----	E2	14	5	0.3	2.7	0.2	0.4	1.8	4.8	7.6	12.6	0.2	0.4 4.6
35	Machinery, except electrical -----	-	51	13	3.7	46.0	1.6	3.1	16.2	97.9	72.7	170.0	5.7	(NA) (NA)
36	Electric and electronic equipment -----	E3	39	20	1.9	18.1	1.5	2.8	11.0	38.5	18.9	56.3	5.1	1.4 19.0
367	Electronic components and accessories -----	-	22	12	0.9	9.3	0.7	1.3	5.5	19.8	9.1	28.4	(D)	0.7 8.1
3673	Electronic components, n.e.c. -----	-	16	7	0.6	5.8	0.4	0.9	3.9	11.9	5.3	17.0	1.4	0.5 6.0
38	Instruments and related products -----	E1	11	5	0.7	8.6	0.3	0.6	3.2	14.1	9.5	23.4	0.8	0.3 4.5

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Manchester SMSA -----	-	271	104	17.8	173.4	13.8	26.0	104.2	350.9	312.6	655.2	13.8	18.4	244.1
20	Food and kindred products --	E1	20	7	0.6	8.9	0.4	0.8	4.1	17.8	62.6	79.8	2.8	1.0	22.4
23	Apparel and other textile products -----	E6	10	7	0.7	4.3	0.6	1.0	3.4	7.7	3.5	11.1	(D)	(NA)	(NA)
24	Lumber and wood products --	E1	26	7	0.5	3.3	0.4	0.7	2.5	7.3	10.2	17.4	(D)	0.4	4.0
25	Furniture and fixtures -----	E3	17	6	0.4	4.0	0.3	0.6	2.8	7.2	6.7	14.0	0.4	0.7	10.1
27	Printing and publishing -----	-	40	5	0.8	11.3	0.5	0.9	6.5	24.4	9.7	33.9	0.5	(NA)	(NA)
31	Leather and leather products -----	-	14	12	3.5	25.8	3.1	5.4	19.8	48.7	49.2	95.2	(D)	3.7	41.6
3144	Women's footwear, except athletic -----	-	7	5	2.4	16.8	2.1	3.6	12.3	30.5	28.1	56.7	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	19	7	0.7	7.6	0.5	1.1	5.1	20.9	20.4	41.4	(D)	0.5	6.4
35	Machinery, except electrical -	-	25	6	0.6	7.6	0.3	0.6	2.1	10.5	10.5	20.9	0.4	0.3	4.0
36	Electric and electronic equipment -----	-	21	11	3.5	36.9	2.8	5.3	22.2	88.9	43.1	128.5	4.6	3.3	44.4
3825	Instruments to measure electricity -----	-	5	5	0.9	6.9	0.8	1.6	4.3	14.0	8.5	22.9	0.4	(NA)	(NA)
	Nashua SMSA -----	-	265	117	19.7	258.9	12.6	25.1	142.4	528.2	503.5	1 036.7	44.8	18.4	322.6
24	Lumber and wood products --	-	21	7	0.7	7.3	0.6	1.2	5.4	19.4	26.4	46.4	0.9	0.9	13.9
30	Rubber and miscellaneous plastics products -----	-	10	8	1.4	13.7	1.1	2.1	9.4	38.4	24.8	62.0	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	E1	18	10	0.5	5.4	0.3	0.6	3.1	11.7	8.9	20.7	(D)	0.5	8.6
35	Machinery, except electrical -	-	55	24	4.5	60.5	2.2	4.6	25.1	109.3	121.0	235.0	10.1	2.2	49.9
359	Miscellaneous machinery, except electrical -----	E4	15	4	0.3	3.4	0.2	0.4	2.2	5.0	3.9	8.8	0.4	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E4	15	4	0.3	3.4	0.2	0.4	2.2	5.0	3.9	8.8	0.4	(NA)	(NA)
36	Electric and electronic equipment -----	-	20	10	4.3	61.1	3.0	6.0	40.4	113.4	48.2	166.9	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries ---	-	15	4	0.5	4.4	0.4	0.7	3.5	8.8	4.8	14.0	(D)	0.7	5.2

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
 (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Belknap County -----	-	106	37	3.8	36.4	3.0	5.8	24.4	76.9	52.5	128.1	3.8	4.0	56.2
36	Electric and electronic equipment -----	-	9	7	0.7	6.4	0.5	1.0	3.4	12.5	14.8	28.9	0.6	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Carroll County -----	-	58	12	1.3	10.6	1.0	1.8	7.1	27.4	22.0	48.9	(D)	0.9	10.5
	Cheshire County -----	-	172	59	7.4	79.3	5.5	10.4	47.3	173.1	129.3	296.8	13.1	6.5	100.4
22	Textile mill products -----	-	11	8	0.8	7.5	0.6	1.2	5.1	19.7	18.8	38.0	(D)	1.0	13.4
35	Machinery, except electrical --	-	25	9	2.7	33.2	1.8	3.4	15.9	77.5	32.5	106.0	5.8	1.8	37.3
	Cooks County -----	-	92	22	5.1	56.2	4.2	7.5	42.8	98.7	203.8	300.9	(D)	3.9	52.9
24	Lumber and wood products --	E1	56	8	0.5	5.4	0.4	0.8	4.1	12.1	28.4	40.3	(D)	0.8	8.3
264	Miscellaneous converted paper products -----	-	3	3	0.5	5.6	0.4	0.7	4.2	9.8	36.2	45.1	(D)	(NA)	(NA)
	Grafton County -----	-	138	40	5.5	50.3	4.4	8.3	33.0	117.9	74.7	190.8	9.2	5.4	54.2
31	Leather and leather products -----	-	6	4	1.0	6.0	0.8	1.4	4.1	11.2	10.6	20.9	0.3	1.0	7.3
35	Machinery, except electrical --	-	12	6	1.0	11.0	0.8	1.4	7.1	27.2	13.5	40.6	1.8	0.8	11.1
	Hillsborough County -----	-	556	224	37.3	434.5	26.1	50.7	248.2	898.3	819.8	1 714.7	59.1	37.2	570.0
20	Food and kindred products --	-	29	13	1.3	20.5	0.9	1.7	12.5	83.0	142.2	224.3	14.0	1.7	64.8
22	Textile mill products -----	-	20	13	2.8	23.6	2.2	4.4	16.2	51.5	44.0	93.4	1.5	4.5	52.1
23	Apparel and other textile products -----	E6	20	14	1.1	7.3	1.0	1.8	5.7	13.1	7.5	20.2	0.3	0.8	5.2
24	Lumber and wood products --	-	56	13	1.1	10.5	1.0	1.9	7.8	24.9	33.4	58.8	1.1	1.4	18.3
26	Paper and allied products ---	-	13	6	2.2	35.6	1.2	2.6	14.9	55.9	106.0	158.1	3.2	1.9	47.3
27	Printing and publishing -----	-	75	19	2.1	23.9	1.3	2.2	13.3	50.1	31.1	80.8	3.6	1.8	29.9
2761	Manifold business forms --	-	4	3	0.5	6.6	0.4	0.8	4.6	18.4	11.9	29.9	0.6	(NA)	(NA)
28	Chemicals and allied products -----	-	13	4	0.5	7.8	0.3	0.7	4.5	29.7	37.7	67.6	3.0	0.6	10.9
30	Rubber and miscellaneous plastics products -----	E1	23	15	2.2	20.7	1.7	3.3	13.8	51.4	41.5	91.1	(D)	2.3	31.2
3069	Fabricated rubber products, n.e.c. -----	E3	3	3	0.6	6.2	0.4	0.8	3.7	13.8	15.6	29.2	(D)	(NA)	(NA)
3079	Miscellaneous plastics products -----	-	19	11	1.5	13.5	1.2	2.3	9.3	36.3	23.9	58.6	1.4	(NA)	(NA)
31	Leather and leather products -----	-	18	14	3.4	26.3	3.0	5.2	19.9	50.6	48.5	96.4	1.2	4.2	50.4
314	Footwear, except rubber --	-	12	11	3.1	22.9	2.7	4.6	17.4	45.1	39.4	81.3	0.7	3.6	43.2
32	Stone, clay, and glass products -----	-	26	13	0.6	6.9	0.4	0.8	4.3	16.2	13.3	29.5	1.5	0.5	8.5
33	Primary metal industries -----	-	12	6	1.0	12.4	0.6	1.3	7.1	22.2	13.1	34.7	2.2	0.8	13.9
34	Fabricated metal products ---	-	49	18	1.4	15.5	1.0	2.1	10.0	33.0	27.1	59.9	2.2	1.1	16.8
344	Fabricated structural metal products -----	-	19	7	0.7	7.4	0.5	1.1	4.9	16.5	16.0	32.6	1.5	0.6	7.9
35	Machinery, except electrical --	-	85	30	5.8	75.0	3.1	6.6	34.1	136.3	134.1	275.2	11.3	3.2	62.9
354	Metalworking machinery ---	-	15	7	0.5	6.2	0.3	0.6	3.1	14.6	7.5	21.6	0.3	(NA)	(NA)
355	Special industry machinery --	-	16	9	2.0	28.9	1.2	2.7	16.2	53.9	50.6	106.5	1.3	1.7	34.9
357	Office and computing machines -----	-	11	6	2.2	27.5	0.7	1.3	5.2	41.8	66.5	110.0	(D)	(NA)	(NA)
3573	Electronic computing equipment -----	-	9	4	2.1	26.3	0.6	1.2	4.8	41.1	63.3	106.5	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	36	20	7.6	97.3	5.6	10.9	62.1	209.5	91.5	302.5	6.7	9.3	131.7
367	Electronic components and accessories -----	-	14	8	1.8	15.2	1.5	2.8	9.3	26.2	12.4	38.7	1.7	4.4	40.1
3679	Electronic components, n.e.c. -----	-	9	4	0.7	6.1	0.6	1.1	4.2	10.2	5.9	16.5	1.2	(NA)	(NA)
38	Instruments and related products -----	-	25	9	2.4	26.5	1.6	3.2	12.4	44.3	28.0	74.3	1.5	0.7	9.1
3825	Instruments to measure electricity -----	-	5	5	0.9	6.9	0.8	1.6	4.3	14.0	8.5	22.9	0.4	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	23	6	0.8	7.2	0.6	1.2	5.2	13.9	9.3	23.6	(D)	1.0	8.8
399	Miscellaneous manufactures -----	-	16	4	0.6	5.5	0.5	0.9	3.7	10.9	7.0	18.3	0.5	0.5	5.6
-	Administrative and auxiliary --	-	5	4	0.6	11.4	-	-	-	-	-	-	-	(NA)	(D)
	Merrimack County -----	-	192	68	8.7	85.4	6.9	13.5	56.9	157.1	165.9	319.4	6.6	7.9	101.7
24	Lumber and wood products --	-	36	10	0.9	7.0	0.8	1.4	5.0	15.7	19.8	35.1	(D)	(NA)	(NA)
31	Leather and leather products -----	-	4	3	0.6	6.4	0.5	1.0	4.9	10.7	27.5	37.2	0.5	0.6	7.3
34	Fabricated metal products ---	E7	17	4	0.6	6.3	0.4	0.9	4.9	7.0	8.0	14.8	0.3	0.5	1.5
38	Electric and electronic equipment -----	-	10	5	1.1	9.0	0.9	1.7	7.0	21.1	8.9	28.7	(D)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Rockingham County -----	-	290	85	10.7	114.7	8.2	15.7	70.1	260.0	212.2	464.5	19.8	9.1	123.3
20	Food and kindred products --	E1	23	4	0.6	5.7	0.5	0.9	2.6	11.5	49.6	60.9	2.2	0.5	10.4
30	Rubber and miscellaneous plastics products -----	-	12	6	0.5	5.0	0.4	0.7	3.0	10.8	7.6	17.9	0.5	(NA)	(NA)
31	Leather and leather products -----	-	17	14	2.2	15.2	2.0	3.5	11.1	26.7	24.5	50.8	0.8	2.6	20.6
314	Footwear, except rubber --	-	13	10	2.1	14.4	1.8	3.4	10.5	25.3	23.6	48.6	0.8	2.5	19.1
3144	Women's footwear, except athletic -----	-	6	4	1.0	6.8	0.9	1.6	4.9	10.6	9.4	19.6	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	17	4	0.5	5.8	0.3	0.7	3.5	14.3	12.4	26.4	0.6	(D)	(D)
34	Fabricated metal products ---	-	21	6	1.0	14.8	0.9	1.7	11.5	30.2	18.4	49.9	(D)	0.8	11.1
36	Electric and electronic equipment -----	-	28	8	1.7	16.1	1.5	2.7	11.5	65.3	17.5	78.3	4.7	(NA)	(NA)
367	Electronic components and accessories -----	-	15	4	1.1	10.2	1.0	1.9	7.3	50.0	8.2	54.4	(D)	(NA)	(NA)
	Strafford County -----	-	117	45	10.8	107.9	8.9	16.6	76.3	227.0	145.5	368.0	16.1	11.1	146.8
30	Rubber and miscellaneous plastics products -----	-	13	9	3.0	31.5	2.6	5.1	24.1	62.2	56.3	117.3	(D)	2.6	33.0
3079	Miscellaneous plastics products -----	-	9	6	2.5	27.8	2.1	4.2	21.1	58.0	49.9	106.8	(D)	(NA)	(NA)
31	Leather and leather products -----	-	17	12	2.7	16.5	2.4	3.7	13.0	25.0	23.5	47.8	0.9	3.3	27.0
36	Electric and electronic equipment -----	-	10	5	0.9	8.3	0.7	1.4	5.4	14.4	10.2	24.7	(D)	0.9	9.5
	Sullivan County -----	-	104	31	4.8	53.6	3.9	7.7	39.3	138.3	67.9	200.1	11.8	3.8	62.6
22	Textile mill products -----	-	7	5	1.3	11.8	1.2	2.3	9.1	21.5	11.3	32.8	0.6	0.8	10.5
35	Machinery, except electrical --	-	20	4	0.9	12.2	0.7	1.3	8.6	30.2	13.6	40.3	(D)	1.1	19.5

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B). - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees. ¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent. ² Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities and Towns: 1977 and 1972

[Includes cities and towns with 450 employees or more and industry groups and industries with 450 employees or more within cities and towns, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City, town, and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Claremont -----	-	39	17	2.6	28.3	2.0	3.8	20.9	84.6	50.8	130.4	9.1	2.2	43.8
	Concord -----	-	69	24	4.7	47.0	3.6	7.2	29.8	85.6	79.8	163.1	3.1	4.6	59.4
27	Printing and publishing -----	-	24	8	1.5	16.0	1.1	2.2	9.7	27.7	17.0	44.6	0.7	(NA)	(NA)
38	Instruments and related products -----	-	4	3	1.1	10.3	0.8	1.6	5.6	18.4	7.3	25.4	(D)	(NA)	(NA)
382	Measuring and controlling devices -----	-	4	3	1.1	10.3	0.8	1.6	5.6	18.4	7.3	25.4	(D)	(NA)	(NA)
3825	Instruments to measure electricity -----	-	4	3	1.1	10.3	0.8	1.6	5.6	18.4	7.3	25.4	(D)	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities and Towns: 1977 and 1972—Con.

[Includes cities and towns with 450 employees or more and industry groups and industries with 450 employees or more within cities and towns, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City, town, and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			E ¹	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
30	Derry town -----	-	29	7	1.4	11.3	1.3	2.3	8.4	22.3	22.5	44.4	1.9	1.1	9.3
	Dover -----	-	46	16	3.7	38.7	2.8	5.5	24.6	55.5	50.2	114.4	(D)	5.0	52.2
	Rubber and miscellaneous plastics products -----	-	8	5	1.2	13.2	1.0	2.0	10.0	27.5	21.9	49.0	(D)	(NA)	(NA)
	Exeter town -----	-	23	8	1.2	13.5	1.0	2.0	8.8	29.9	19.0	47.9	3.5	0.9	14.3
	Franklin -----	-	17	8	0.9	8.8	0.7	1.3	6.5	12.9	17.2	29.5	0.3	0.9	5.3
	Hudson town -----	-	44	12	2.0	20.8	1.0	2.0	8.9	39.2	60.4	97.3	4.7	(D)	(D)
35	Keene -----	-	49	22	3.9	46.9	2.6	5.0	23.9	94.8	49.3	139.5	5.0	3.6	60.3
	Machinery, except electrical --	-	11	4	2.2	29.1	1.4	2.5	12.4	57.9	23.4	76.6	(D)	(NA)	(NA)
36	Laconia -----	-	63	23	2.7	25.2	2.1	4.0	16.3	52.1	37.2	87.3	2.6	3.0	43.0
	Electric and electronic equipment -----	-	4	4	0.5	4.3	0.4	0.7	2.5	8.6	8.9	18.1	(D)	(NA)	(NA)
	Lebanon -----	-	33	11	1.3	14.0	1.0	1.9	8.5	33.9	19.8	52.6	2.1	1.0	14.7
	Littletown -----	-	20	8	1.4	8.8	1.1	2.0	6.1	25.1	19.5	43.7	1.2	1.9	12.7
	Manchester -----	-	173	75	14.4	142.7	11.0	20.7	83.2	295.1	260.7	548.4	10.4	15.9	215.6
20	Food and kindred products --	E1	14	7	0.6	8.8	0.4	0.8	4.0	17.6	62.0	79.0	2.7	1.0	22.2
22	Textile mill products -----	-	10	8	2.4	20.3	1.9	3.8	13.4	45.7	32.1	75.9	1.3	(NA)	(NA)
27	Printing and publishing -----	-	31	4	0.8	10.9	0.5	0.9	6.4	23.5	9.5	32.8	0.5	0.8	15.1
30	Rubber and miscellaneous plastics products -----	E4	9	6	0.7	6.0	0.6	1.0	3.6	11.1	13.9	24.4	(D)	(NA)	(NA)
344	Fabricated structural metal products -----	-	10	5	0.6	5.8	0.4	0.9	3.7	13.5	13.2	26.7	(D)	(NA)	(NA)
3825	Instruments to measure electricity -----	-	5	5	0.9	6.9	0.8	1.6	4.3	14.0	8.5	22.9	0.4	(NA)	(NA)
	Milford town -----	-	33	15	1.5	19.1	1.1	2.2	11.3	34.4	25.9	59.6	4.2	1.4	19.7
	Nashua -----	-	153	77	13.6	180.6	8.8	17.6	100.3	368.6	327.2	700.0	22.7	15.5	255.2
24	Lumber and wood products --	-	8	5	0.5	5.1	0.4	0.8	3.8	15.7	18.7	34.7	(D)	(NA)	(NA)
27	Printing and publishing -----	-	15	5	0.7	7.2	0.5	0.7	3.9	11.9	11.7	23.6	2.3	(NA)	(NA)
3079	Miscellaneous plastics products -----	-	7	5	1.0	9.6	0.8	1.5	6.6	28.9	14.7	42.4	1.1	(NA)	(NA)
31	Leather and leather products -----	-	5	4	0.7	5.4	0.6	1.1	3.9	8.9	7.9	16.4	(D)	(NA)	(NA)
35	Machinery, except electrical --	-	29	15	2.9	42.0	1.5	3.2	18.0	71.7	72.5	151.9	6.1	1.7	38.0
39	Miscellaneous manufacturing industries -----	-	10	4	0.5	4.1	0.4	0.7	3.3	8.2	4.5	13.1	(D)	(NA)	(NA)
	Newmarket town -----	-	10	5	0.7	5.5	0.6	1.1	3.6	11.5	10.3	21.5	(D)	0.6	8.9
	Newport town -----	-	34	11	2.0	23.1	1.7	3.6	16.9	48.7	12.5	60.1	2.2	1.3	16.1
	Portsmouth -----	-	30	13	1.5	15.4	1.2	2.3	9.2	63.6	53.6	113.5	3.3	1.3	21.7
	Rochester -----	-	35	15	2.6	21.2	2.3	4.0	16.0	44.1	38.4	80.8	3.9	1.5	21.9
	Leather and leather products -----	-	7	5	1.2	6.9	1.1	1.6	5.7	11.3	12.4	23.7	(D)	(NA)	(NA)
31	Salem town -----	-	26	7	0.6	7.2	0.4	0.8	3.0	15.8	15.8	30.9	2.4	0.7	8.3
	Somersworth -----	-	15	8	3.1	32.5	2.6	4.8	23.9	88.2	29.5	116.5	(D)	3.0	54.6

Note: "City" or "town" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
² Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal products; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
NEW HAMPSHIRE	1825	90	-	57	49	355	61	49	226	31	5	67	71	90	39	133	225	110	27	60	63	17
1 TO 4 EMPLOYEES	768	45	-	5	8	207	28	6	125	13	-	13	3	42	9	49	99	33	14	21	36	2
5 TO 9 EMPLOYEES	221	8	-	5	4	47	7	6	27	7	-	10	5	11	4	25	31	10	12	9	3	1
10 TO 19 EMPLOYEES	213	12	-	5	3	44	7	11	26	4	2	6	5	6	4	21	24	16	6	5	8	4
20 TO 49 EMPLOYEES	245	13	-	14	3	58	7	15	21	2	2	8	11	22	9	17	12	11	1	5	7	3
50 TO 99 EMPLOYEES	160	6	-	10	4	12	7	10	17	2	-	11	10	4	6	10	22	11	2	5	1	2
100 TO 249 EMPLOYEES	122	4	-	6	7	7	5	8	8	3	-	12	13	4	5	5	6	11	4	6	8	-
250 TO 499 EMPLOYEES	64	2	-	8	-	-	-	2	1	-	-	2	4	-	-	1	1	4	1	2	-	-
500 TO 999 EMPLOYEES	23	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	1	-	-	-	-
1000 TO 2499 EMPLOYEES	9	-	-	1	-	-	-	2	-	-	-	-	-	1	-	-	2	1	-	-	-	-
BELKNAP COUNTY	106	8	-	6	8	14	1	1	11	-	-	1	1	5	6	6	15	9	2	6	6	-
1 TO 4 EMPLOYEES	69	7	-	2	3	12	1	1	10	-	-	1	-	2	2	5	12	2	2	4	3	-
5 TO 9 EMPLOYEES	21	1	-	1	4	4	1	1	1	-	-	-	-	1	-	1	1	4	1	1	2	-
10 TO 19 EMPLOYEES	15	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 49 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
50 EMPLOYEES AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CARROLL COUNTY	58	1	-	-	2	23	6	1	6	-	-	3	1	3	2	2	3	2	-	-	3	-
1 TO 4 EMPLOYEES	46	1	-	-	1	20	4	1	5	-	-	2	1	1	1	2	3	2	-	-	3	-
5 TO 9 EMPLOYEES	8	-	-	-	1	2	1	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
10 TO 19 EMPLOYEES	4	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 49 EMPLOYEES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHESHIRE COUNTY	172	4	-	11	3	37	6	8	20	4	-	5	5	3	4	14	25	7	1	6	8	1
1 TO 4 EMPLOYEES	113	3	-	6	2	31	4	2	16	4	-	3	1	2	1	10	16	5	1	4	4	1
5 TO 9 EMPLOYEES	40	1	-	6	1	6	4	6	3	-	-	3	3	1	2	3	5	1	1	-	2	1
10 TO 19 EMPLOYEES	12	-	-	-	-	-	2	-	1	-	-	2	1	-	-	1	1	1	-	1	2	-
20 TO 49 EMPLOYEES	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	1	-	-
50 EMPLOYEES AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COOS COUNTY	92	5	-	-	2	56	2	5	8	1	-	4	-	2	-	1	3	1	-	-	1	1
1 TO 4 EMPLOYEES	70	4	-	-	48	1	1	1	8	1	-	1	-	-	-	-	1	1	-	-	1	-
5 TO 9 EMPLOYEES	14	1	-	-	1	8	1	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-
10 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 49 EMPLOYEES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 EMPLOYEES AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRAFTON COUNTY	138	2	-	1	4	50	7	1	25	2	1	1	6	8	1	5	12	5	1	4	1	1
1 TO 4 EMPLOYEES	98	2	-	-	42	4	2	1	20	2	1	1	2	2	1	5	6	2	1	3	1	1
5 TO 9 EMPLOYEES	28	-	-	-	3	8	2	-	4	-	-	-	2	5	-	3	3	1	1	1	-	-
10 TO 19 EMPLOYEES	8	-	-	1	1	-	-	-	1	-	-	-	2	1	-	-	2	2	-	-	-	-
20 TO 49 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 EMPLOYEES AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HILLSBOROUGH COUNTY	556	29	-	20	20	56	16	13	75	13	2	23	18	26	12	49	85	36	7	25	23	8
1 TO 4 EMPLOYEES	332	16	-	7	6	43	11	7	56	9	-	8	4	13	6	31	55	18	7	16	17	4
5 TO 9 EMPLOYEES	142	9	-	7	10	10	4	3	13	2	2	8	5	11	5	15	22	8	7	15	4	1
10 TO 19 EMPLOYEES	47	3	-	3	4	3	1	2	5	2	-	2	4	2	-	2	6	10	-	4	-	-
20 TO 49 EMPLOYEES	35	1	-	3	-	-	1	1	1	-	-	-	5	1	-	1	-	-	-	-	-	-
50 EMPLOYEES AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MERRIMACK COUNTY	192	8	-	6	5	36	7	5	32	2	-	5	4	18	5	17	17	10	3	7	5	-
1 TO 4 EMPLOYEES	124	5	-	2	26	4	2	24	26	2	-	3	1	15	3	13	9	5	2	2	1	1
5 TO 9 EMPLOYEES	49	3	-	3	3	3	3	2	6	-	-	1	1	-	-	-	2	3	1	2	-	-
10 TO 19 EMPLOYEES	11	-	-	-	-	2	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 49 EMPLOYEES	8	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 EMPLOYEES AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROCKINGHAM COUNTY	290	23	-	3	3	38	13	5	30	8	1	12	17	17	3	21	34	28	9	9	12	4
1 TO 4 EMPLOYEES	205	19	-	1	1	34	11	2	24	5	1	6	5	13	2	15	28	20	5	5	11	3
5 TO 9 EMPLOYEES	60	3	-	1	3	4	2	3	6	2	-	5	6	3	-	3	6	4	2	3	3	1
10 TO 19 EMPLOYEES	12	-	-	-	-	-	-	-	-	-	-	1	1	1	-	1	-	3	-	-	-	-
20 TO 49 EMPLOYEES	13	1	-	-	-	-	-	-	-	-	-	-	3	-	1	2	-	1	2	1	-	-
50 EMPLOYEES AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STAFFORD COUNTY	117	6	-	3	1	7	1	5	11	1	1	13	17	4	3	12	11	10	4	2	3	2
1 TO 4 EMPLOYEES	72	6	-	2	1	7	1	1	10	1	1	4	4	2	2	10	7	5	4	4	2	2
5 TO 9 EMPLOYEES	24	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
10 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
20 TO 49 EMPLOYEES	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 EMPLOYEES AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SULLIVAN COUNTY	104	4	-	7	1	38	2	5	8	-	-	-	2	4	3	6	20	2	-	1	1	-
1 TO 4 EMPLOYEES	73	2	-	2	3	3	1	2	5	-	-	-	-	4	-	3	16	3	-	-	-	-
5 TO 9 EMPLOYEES	19	1	-	1	1	3	1	1	3	-	-	-	-	1	-	2	3	1	-	-	-	-
10 TO 19 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 49 EMPLOYEES	7	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 EMPLOYEES AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see introduction).

¹ Represents zero.

Only those counties and size classes that include data for manufacturing establishments are shown.

New Jersey

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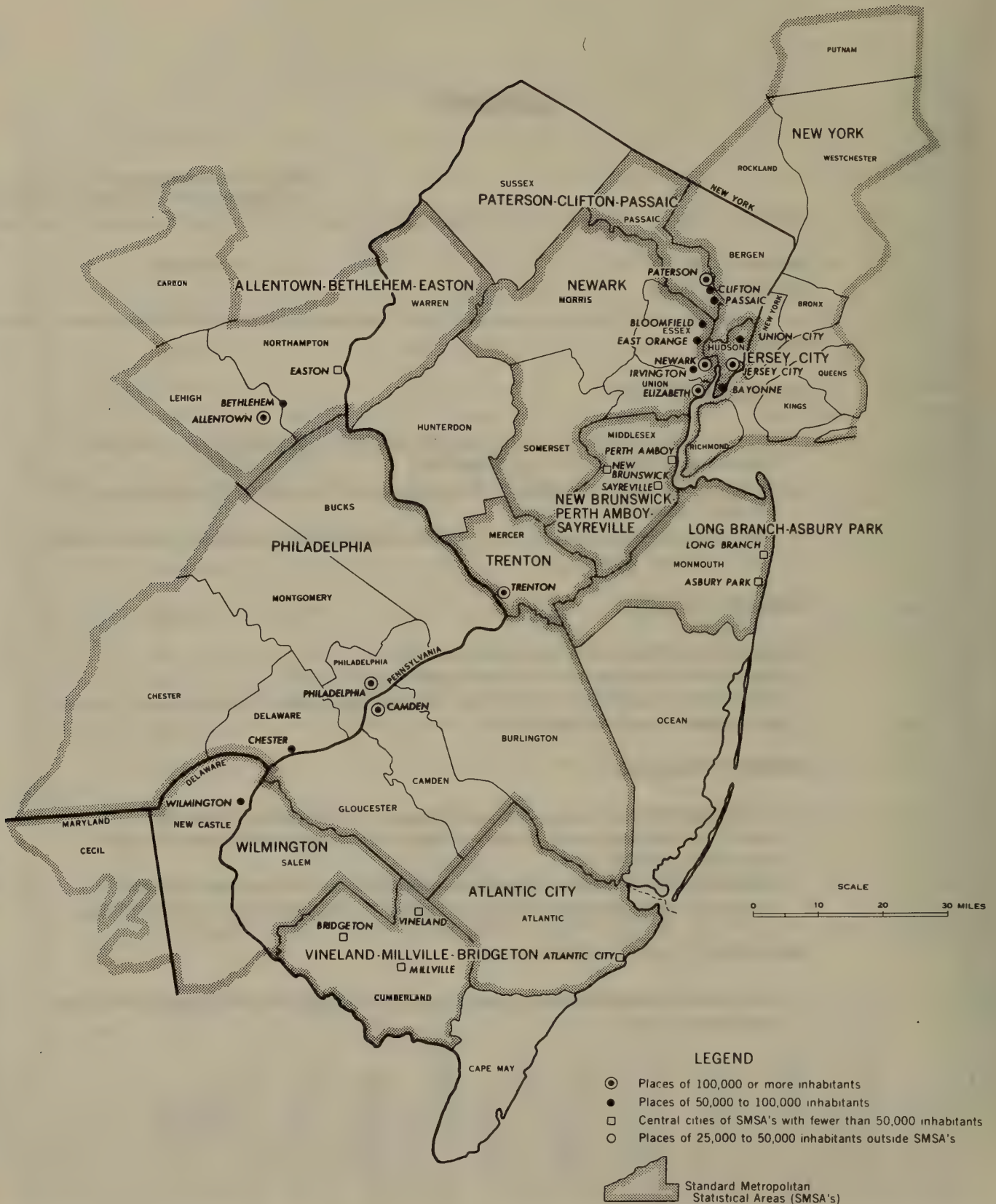
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NEW JERSEY



SUMMARY OF FINDINGS

In 1977, 778.3 thousand persons were employed in New Jersey's manufacturing establishments. This figure represented a decrease of 7 percent from the 1972 figure of 836.1 thousand workers.

The total value added by manufacture for the State amounted to \$22,853 million in 1977, an increase of approximately 39 percent from the 1972 figure of \$16,409 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were chemicals and allied products; electric and electronic equipment; machinery, except electrical; and apparel and other textile products. They accounted for approximately 38 percent of the State's 1977 employment. The order has shifted from 1972 when industry groups chemicals and allied products; electric and electronic equipment; apparel and other textile products; and machinery, except electrical accounted for

approximately 39 percent of the State's employment.

The most important counties in the State ranked by employment were Bergen, Union, Essex, and Middlesex. They accounted for approximately 47 percent of the State's 1977 manufacturing employment. The order has shifted from 1972 when Bergen, Essex, Union, and Hudson accounted for approximately 49 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 2 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
New Jersey:						
1977.....	778.3	10,924.2	691.4	9,175.6	86.9	1,748.6
1972.....	836.1	8,107.2	756.1	6,961.4	80.0	1,145.8
1967.....	881.3	6,325.4	817.9	5,673.1	63.4	652.3
1963.....	829.2	5,121.3	778.0	4,665.8	51.2	455.5
STANDARD CONSOLIDATED STATISTICAL AREAS						
New York-Newark-Jersey City, N.Y.-N.J.-Conn.:						
1977.....	1,502.0	20,379.2	1,317.1	16,309.1	184.9	4,070.1
1972.....	1,694.5	13,654.6	1,487.6	10,602.3	206.9	3,052.3
1967.....	1,818.5	12,968.2	1,643.5	10,998.6	175.0	1,969.6
1963.....	1,779.0	10,767.1	1,625.6	9,279.1	153.5	1,488.0
Philadelphia-Wilmington-Trenton, Pa.-Del.-N.J.-Md.:						
1977.....	550.5	8,072.4	487.8	6,814.0	62.7	1,258.4
1972.....	597.8	5,900.8	543.5	5,127.6	54.3	773.2
STANDARD METROPOLITAN STATISTICAL AREAS						
Allentown-Bethlehem-Easton, Pa.-N.J.:						
1977.....	106.8	1,430.8	97.1	1,217.2	9.7	213.6
1972.....	110.4	980.6	102.1	851.2	8.3	129.4
Atlantic City:						
1977.....	8.7	88.7	(D)	(D)	(D)	(D)
1972.....	10.4	76.5	(D)	(D)	(D)	(D)
1967.....	10.2	52.5	(D)	(D)	(D)	(D)
1963.....	8.7	35.4	(D)	(D)	(D)	(D)
Jersey City:						
1977.....	72.2	870.1	70.2	843.6	2.0	26.5
1972.....	95.3	849.4	93.5	825.7	1.8	23.7
1967.....	107.2	737.8	104.4	708.8	2.8	29.0
1963.....	109.5	633.4	106.6	611.6	3.0	21.9
Long Branch-Asbury Park:						
1977.....	26.6	351.8	22.3	252.7	4.3	99.1
1972.....	26.1	234.8	21.4	163.2	4.7	71.6
New Brunswick-Perth Amboy-Sayreville:						
1977.....	80.5	1,174.7	69.5	962.8	11.0	211.9
1972.....	80.1	809.8	72.2	706.6	7.9	103.2
New York, N.Y.-N.J.:						
1977.....	796.6	10,313.0	693.0	7,981.4	103.6	2,331.6
1972.....	949.2	8,862.5	810.6	6,792.1	138.6	2,070.4
1967.....	1,147.4	8,112.7	1,023.5	6,654.7	123.9	1,458.0
1963.....	1,147.1	6,849.4	1,034.0	5,713.4	113.2	1,136.1
Newark:						
1977.....	255.5	3,853.3	217.8	3,052.6	37.7	800.7
1972.....	271.8	2,795.3	234.9	2,251.8	36.9	543.5
1967.....	263.7	1,958.4	238.2	1,698.5	25.5	259.9
1963.....	250.2	1,613.8	224.6	1,379.4	25.7	234.4
Paterson-Clifton-Passaic:						
1977.....	65.3	856.5	59.9	747.0	5.4	109.5
1972.....	75.5	671.6	71.9	620.0	3.6	51.6
Philadelphia, Pa.-N.J.:						
1977.....	451.8	6,364.7	418.8	5,764.9	33.0	599.8
1972.....	495.7	4,774.6	466.0	4,379.3	29.7	395.3
1967.....	573.8	4,125.2	549.4	3,875.5	24.4	249.7
1963.....	535.8	3,310.6	512.8	3,108.7	23.0	201.9
Trenton:						
1977.....	35.9	538.4	29.0	397.7	6.9	140.7
1972.....	35.6	362.5	30.8	290.6	4.8	71.9
1967.....	38.1	282.7	35.0	247.6	3.1	35.1
1963.....	37.8	244.5	33.9	210.6	3.9	33.9
Vineland-Millville-Bridgeton:						
1977.....	18.9	223.2	(D)	(D)	(D)	(D)
1972.....	22.5	168.8	(D)	(D)	(D)	(D)
1967.....	24.1	140.4	24.1	140.4	-	-
Wilmington, Del.-N.J.-Md.:						
1977.....	62.8	1,169.3	41.1	669.4	21.7	499.9
1972.....	64.1	763.6	44.4	459.3	19.7	304.3
1967.....	68.0	605.1	48.2	358.0	19.8	247.1
1963.....	59.4	468.6	42.3	283.5	17.1	185.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers								Comparative indexes and U.S. employment				
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	Index of State em- ploy- ment change (1977= 100)	United States			
														Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)		
NEW JERSEY																	
1977 CENSUS.	15 696	5 775	778.3	10 924.2	489.6	955.8	5 561.7	22 852.8	28 633.9	51 279.4	1 376.3	3.97	100	100	19 596.9		
1976 ASM....	(NA)	(NA)	735.7	9 703.8	458.4	906.5	4 851.1	20 287.5	25 438.3	45 711.3	1 216.3	3.92	95	96	18 753.0		
1975 ASM....	(NA)	(NA)	747.1	9 115.4	463.4	899.4	4 557.2	17 740.8	22 759.5	40 716.8	1 200.2	4.08	96	94	18 302.2		
1974 ASM....	(NA)	(NA)	818.6	9 038.2	531.4	1 043.1	4 806.9	18 394.1	22 622.5	40 346.0	1 203.2	4.13	105	102	19 844.8		
1973 ASM....	(NA)	(NA)	852.0	8 603.7	559.6	1 089.1	4 662.1	17 754.4	18 410.2	35 924.9	955.3	4.28	109	102	19 897.9		
1972 CENSUS.	13 790	5 918	836.1	8 107.2	546.6	1 070.9	4 353.7	16 408.9	16 149.8	32 409.1	940.1	4.39	107	98	19 028.7		
1971 ASM....	(NA)	(NA)	796.5	7 258.2	517.4	1 023.5	3 880.9	14 393.8	14 540.0	28 953.4	798.4	4.34	102	94	18 363.1		
1970 ASM....	(NA)	(NA)	858.8	7 217.2	563.6	1 116.5	3 877.6	14 413.8	14 204.7	28 503.2	902.3	4.47	110	99	19 217.2		
1969 ASM....	(NA)	(NA)	890.0	7 091.8	596.7	1 183.9	3 938.4	14 364.1	14 574.5	28 835.9	933.2	4.44	114	103	20 035.5		
1968 ASM....	(NA)	(NA)	874.3	6 433.4	591.1	1 173.6	3 743.4	13 503.4	13 696.0	27 163.9	764.5	4.48	112	100	19 527.6		
1967 CENSUS.	14 740	5 903	881.3	6 325.4	603.7	1 203.7	3 617.8	12 738.2	13 151.2	25 761.7	824.3	4.56	113	99	19 323.2		
1966 ASM....	(NA)	(NA)	876.5	6 046.7	604.5	1 218.8	3 506.0	12 246.3	12 961.5	24 941.2	776.4	4.61	113	98	19 024.5		
1965 ASM....	(NA)	(NA)	845.2	5 601.9	585.9	1 180.5	3 292.4	11 267.9	12 076.6	23 156.2	617.6	4.69	109	92	18 010.2		
1964 ASM....	(NA)	(NA)	820.8	5 274.7	562.2	1 135.2	3 087.9	10 216.6	11 041.5	21 225.6	502.2	4.75	105	89	17 268.5		
1963 CENSUS.	15 208	5 528	829.2	5 121.3	573.8	1 145.4	3 021.0	9 957.3	(NA)	(NA)	525.0	4.89	107	87	16 958.4		
NEW YORK-NEWARK-JERSEY CITY, N.Y.-N.J.-CONN., SCSA																	
1977 CENSUS.	41 325	13 366	1 502.0	20 379.2	919.2	1 747.6	9 319.5	40 638.1	44 236.4	84 486.0	1 949.6	7.66	100	100	19 596.9		
1972 CENSUS.	36 320	12 614	1 694.5	13 654.6	885.7	1 688.6	6 414.9	29 668.0	25 402.8	50 270.3	1 083.1	8.90	113	98	19 028.7		
PHILADELPHIA-WILMINGTON-TRENTON, PA.-DEL.-N.J.-MD., SCSA																	
1977 CENSUS.	8 964	3 306	550.5	8 072.4	343.8	667.7	4 192.6	15 796.6	22 402.4	38 008.3	921.5	2.81	100	100	19 596.9		
1972 CENSUS.	13 435	5 309	597.8	8 696.1	547.7	1 072.5	4 523.8	11 008.5	17 455.5	33 909.1	959.2	3.14	109	98	19 028.7		
ALLENTOWN-BETHLEHEM-EASTON, PA.-N.J., SMSA																	
1977 CENSUS.	1 183	621	106.8	1 430.8	75.8	140.9	853.3	2 731.8	3 105.1	5 828.2	172.8	.55	100	100	19 596.9		
1976 ASM....	(NA)	(NA)	107.6	1 346.9	74.5	142.0	775.8	2 483.2	3 194.6	5 673.4	1 911.5	.57	101	96	18 753.0		
1975 ASM....	(NA)	(NA)	111.2	1 286.9	76.5	143.7	739.5	2 193.8	3 008.3	5 193.0	224.1	.61	104	94	18 302.2		
1974 ASM....	(NA)	(NA)	116.8	1 240.2	82.9	159.3	745.1	2 369.3	2 993.8	5 227.1	215.4	.59	109	102	19 844.8		
1973 ASM....	(NA)	(NA)	113.5	1 083.5	81.6	153.5	671.1	2 185.3	2 169.6	4 255.9	176.1	.57	106	102	19 897.9		
1972 CENSUS.	1 116	645	110.4	980.6	80.6	149.0	592.6	1 805.6	1 768.5	3 553.8	164.5	.58	103	98	19 028.7		
JERSEY CITY SMSA																	
1977 CENSUS.	1 857	655	72.2	870.1	53.8	100.8	557.5	1 983.4	2 733.7	4 702.1	94.6	.37	100	100	19 596.9		
1976 ASM....	(NA)	(NA)	71.4	797.4	52.7	102.1	502.2	1 968.4	2 839.9	4 816.4	89.3	.38	99	96	18 753.0		
1975 ASM....	(NA)	(NA)	74.1	814.7	53.9	105.0	505.0	1 935.9	2 560.8	4 517.0	80.6	.40	103	94	18 302.2		
1974 ASM....	(NA)	(NA)	87.5	872.8	66.0	123.7	565.2	1 914.9	2 587.8	4 451.2	76.9	.44	121	102	19 844.8		
1973 ASM....	(NA)	(NA)	91.5	858.8	69.0	132.1	557.3	1 885.7	2 296.9	4 166.4	88.5	.46	127	102	19 897.9		
1972 CENSUS.	1 911	799	95.3	849.4	71.2	136.1	546.8	1 899.2	2 036.2	3 914.2	91.8	.50	132	98	19 028.7		
1971 ASM....	(NA)	(NA)	92.0	768.6	68.7	131.9	498.3	1 758.6	1 752.4	3 519.1	75.6	.50	127	94	18 363.1		
NEW BRUNSWICK-PERTH AMBOY-SAYREVILLE SMSA																	
1977 CENSUS.	1 147	540	80.5	1 174.7	49.7	97.9	602.3	2 945.2	3 986.3	6 864.2	164.7	.41	100	100	19 596.9		
1971 ASM....	4 600	1 749	263.4	2 209.0	141.6	284.0	1 063.5	4 519.5	4 379.4	880.4	211.7	1.43	327	94	18 363.1		
1970 ASM....	4 600	1 749	250.7	2 216.0	152.5	305.0	1 068.7	4 282.6	4 280.2	8 550.4	264.4	1.30	312	99	19 217.2		
1969 ASM....	4 600	1 749	269.9	2 212.2	170.1	338.8	1 127.0	4 450.6	4 398.7	8 842.6	281.4	1.35	335	103	20 035.5		
1968 ASM....	4 600	1 749	262.5	2 061.9	166.7	334.7	1 079.0	4 304.5	4 177.9	8 422.3	260.0	1.34	326	100	19 527.6		
1967 CENSUS.	4 466	1 769	263.7	1 958.4	170.2	343.4	1 033.4	4 071.1	4 117.6	8 147.4	295.6	1.36	328	99	19 323.2		
1966 ASM....	(NA)	(NA)	260.1	1 868.4	167.5	347.5	989.3	3 863.9	4 122.0	7 889.9	231.7	1.37	323	98	19 024.5		
1965 ASM....	(NA)	(NA)	252.5	1 740.7	162.4	330.7	912.9	3 549.4	3 865.0	7 358.0	179.0	1.40	314	92	18 010.2		
1964 ASM....	(NA)	(NA)	244.1	1 635.6	156.8	318.3	874.4	3 151.6	3 474.4	6 613.7	153.5	1.41	303	89	17 268.5		
1963 CENSUS.	4 692	1 705	250.2	1 613.8	160.3	321.9	852.9	3 015.6	(NA)	(NA)	155.8	1.48	311	87	16 958.4		
NEW YORK, N.Y.-N.J., SMSA																	
1977 CENSUS.	25 831	8 040	796.6	10 313.0	489.0	909.7	4 519.2	19 878.3	21 494.9	41 187.9	862.5	4.07	100	100	19 596.9		
1976 ASM....	(NA)	(NA)	763.4	9 298.5	455.9	856.9	3 946.1	16 818.9	19 005.3	35 831.8	813.0	4.07	96	96	18 753.0		
1975 ASM....	(NA)	(NA)	787.4	9 240.4	464.0	873.3	3 840.6	15 927.9	17 992.6	34 092.5	645.8	4.30	99	94	18 302.2		
1974 ASM....	(NA)	(NA)	854.5	9 277.1	517.1	977.7	3 911.7	15 953.4	17 404.6	33 078.3	616.0	4.31	107	102	19 844.8		
1973 ASM....	(NA)	(NA)	938.7	9 146.0	589.8	1 095.3	4 142.8	15 666.2	16 659.9	32 256.2	524.5	4.72	118	102	19 897.9		
1972 CENSUS.	41 684	14 353	949.2	8 862.5	589.5	1 106.9	4 000.4	15 120.8	15 634.1	30 604.4	585.1	4.99	119	98	19 028.7		
1971 ASM....	(NA)	(NA)	992.9	8 653.2	614.2	1 161.8	3 994.8	15 245.3	14 361.4	29 525.8	573.4	5.41	125	94	18 363.1		
1970 ASM....	(NA)	(NA)	1 074.8	8 766.2	680.6	1 296.2	4 141.9	15 193.5	14 102.0	29 185.2	547.2	5.59	135	99	19 217.2		
1969 ASM....	(NA)	(NA)	1 158.7	8 934.2	747.5	1 433.3	4 357.0	15 429.1	15 103.0	30 537.4	537.1	5.78	145	103	20 035.5		
1968 ASM....	(NA)	(NA)	1 140.0	8 452.3	743.3	1 358.1	4 187.9	14 854.1	14 468.3	29 194.3	487.6	5.84	143	100	19 527.6		
1967 CENSUS.	45 894	15 915	1 147.4	8 112.7	749.6	1 435.6	3 968.1	13 803.5	13 808.6	27 486.1	439.4	5.94	144	99	19 323.2		
1966 ASM....	(NA)	(NA)	1 149.1	7 551.8	749.0	1 435.6	3 662.3	12 981.9	13 801.2	26 521.2	379.5	6.04	144	98	19 024.5		
1965 ASM....	(NA)	(NA)	1 138.2	7 174.4	748.3	1 438.9	3 564.6	12 308.6	13 155.5	25 311.0	336.5	6.32	143	92	18 010.2		
1964 ASM....	(NA)	(NA)	1 146.3	7 134.0	745.1	1 445.5	3 563.2	11 577.6	12 564.3	24 114.3	296.9	6.64	144	89	17 268.5		
1963 CENSUS.	49 904	16 085	1 147.1	6 849.4	760.7	1 455.2	3 515.6	11 417.0	(NA)	(NA)	345.8	6.76	144	87	16 958.4		

See footnotes at end of table.

**Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas:
1977 and Earlier Years—Con.**

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers							Comparative indexes and U.S. employment				
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	Index of State em- ploy- ment change (1977= 100)	United States		
														Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)	
NEWARK SMSA																
1977 CENSUS.	4 638	1 733	255.5	3 853.3	145.5	287.4	1 702.3	7 870.8	9 520.5	17 304.3	461.5	1.30	100	100	19 596.9	
1976 ASM....	(NA)	(NA)	246.5	3 559.8	135.1	270.7	1 490.1	7 045.8	8 183.0	15 171.8	398.6	1.31	96	96	18 753.0	
1975 ASM....	(NA)	(NA)	252.6	3 265.1	139.9	270.4	1 374.5	6 055.9	7 268.8	13 393.8	395.4	1.38	99	94	18 302.2	
1974 ASM....	(NA)	(NA)	261.0	3 052.2	155.2	308.2	1 427.8	6 134.2	6 943.6	12 890.5	366.0	1.32	102	102	19 844.8	
1973 ASM....	(NA)	(NA)	276.7	3 001.9	163.6	323.4	1 417.3	6 086.3	5 828.9	11 874.6	282.5	1.39	108	102	19 897.9	
1972 CENSUS.	4 600	1 749	271.8	2 795.3	160.7	317.5	1 312.8	5 608.6	5 071.4	10 614.6	269.9	1.43	106	98	19 028.7	
1971 ASM....	(NA)	(NA)	263.4	2 209.0	141.6	284.0	1 063.5	4 519.5	4 379.4	8 880.4	211.7	1.43	103	94	18 363.1	
1970 ASM....	(NA)	(NA)	250.7	2 216.0	152.5	305.0	1 068.7	4 282.6	4 280.2	8 550.4	264.4	1.30	98	99	19 217.2	
1969 ASM....	(NA)	(NA)	269.9	2 212.2	170.1	338.8	1 127.0	4 450.6	4 398.7	8 842.6	281.4	1.35	106	103	20 035.5	
1968 ASM....	(NA)	(NA)	262.5	2 061.9	166.7	334.7	1 079.0	4 304.5	4 177.9	8 422.3	260.0	1.34	103	100	19 527.6	
1967 CENSUS.	4 466	1 769	263.7	1 958.4	170.2	343.4	1 033.4	4 071.1	4 117.6	8 147.4	295.6	1.36	103	99	19 323.2	
1966 ASM....	(NA)	(NA)	260.1	1 868.4	167.5	347.5	989.3	3 863.9	4 122.0	7 889.9	231.7	1.37	102	98	19 024.5	
1965 ASM....	(NA)	1	252.5	1 740.7	162.4	330.7	912.9	3 549.4	3 865.0	7 358.0	179.0	1.40	99	92	18 010.2	
1964 ASM....	(NA)	0	244.1	1 635.6	156.8	318.3	874.4	3 151.6	3 474.4	6 613.7	153.5	1.41	96	89	17 268.5	
1963 CENSUS.	4 692	1 705	250.2	1 613.8	160.3	321.9	852.9	3 015.6	(NA)	(NA)	155.8	1.48	98	87	16 958.4	
PATERSON-CLIFTON-PASSAIC SMSA																
1977 CENSUS.	1 558	636	65.3	856.5	44.1	86.2	475.8	1 647.8	1 601.2	3 244.3	83.3	.33	100	100	19 596.9	
1976 ASM....	(NA)	(NA)	62.3	772.4	42.0	83.3	426.0	1 391.8	1 310.6	2 690.3	88.4	.33	95	96	18 753.0	
1975 ASM....	(NA)	(NA)	59.9	698.9	39.8	78.7	391.6	1 227.2	1 212.5	2 484.1	74.2	.33	92	94	18 302.2	
1974 ASM....	(NA)	(NA)	68.2	705.6	46.3	92.3	401.9	1 293.2	1 293.0	2 565.2	65.0	.34	105	102	19 844.8	
1973 ASM....	(NA)	(NA)	77.6	697.4	56.3	107.2	422.3	1 304.9	1 095.0	2 368.9	55.9	.39	119	102	19 897.9	
1972 CENSUS.	1 590	669	75.5	671.6	54.7	107.3	406.5	1 179.4	1 055.0	2 245.0	58.7	.40	116	98	19 028.7	
PHILADELPHIA, PA.-N.J., SMSA																
1977 CENSUS.	7 946	2 909	451.8	6 364.7	293.5	569.0	3 510.6	13 429.6	18 223.2	31 507.5	723.4	2.31	100	100	19 596.9	
1976 ASM....	(NA)	(NA)	437.2	5 780.4	283.5	546.3	3 117.0	11 646.4	15 866.9	27 467.4	566.0	2.33	97	96	18 753.0	
1975 ASM....	(NA)	(NA)	449.2	5 425.6	286.8	549.5	2 897.0	10 353.2	14 633.5	24 957.1	606.0	2.45	99	94	18 302.2	
1974 ASM....	(NA)	(NA)	502.1	5 495.7	330.8	642.0	3 103.4	10 998.0	14 561.2	25 275.5	758.8	2.53	111	102	19 844.8	
1973 ASM....	(NA)	(NA)	503.5	5 112.9	342.7	667.2	2 974.2	10 055.7	11 392.0	21 276.9	620.1	2.53	111	102	19 897.9	
1972 CENSUS.	7 889	3 161	495.7	4 774.6	331.4	644.3	2 714.6	9 189.9	9 904.2	19 049.5	570.0	2.61	110	98	19 028.7	
1971 ASM....	(NA)	(NA)	500.2	4 505.1	330.7	648.0	2 518.0	8 693.5	9 396.6	18 156.1	535.4	2.72	111	94	18 363.1	
1970 ASM....	(NA)	(NA)	538.2	4 554.9	358.5	705.5	2 569.1	8 575.5	9 340.8	17 898.1	550.4	2.80	119	99	19 217.2	
1969 ASM....	(NA)	(NA)	578.3	4 675.5	387.2	771.4	2 648.9	9 047.4	9 110.9	18 046.9	563.7	2.89	128	103	20 035.5	
1968 ASM....	(NA)	(NA)	573.3	4 367.3	388.5	772.9	2 501.6	8 365.7	8 657.2	17 017.3	501.3	2.94	127	100	19 527.6	
1967 CENSUS.	7 938	3 317	573.8	4 125.2	397.5	782.5	2 405.6	7 958.8	8 242.1	16 016.5	624.9	2.97	127	99	19 323.2	
1966 ASM....	(NA)	(NA)	571.0	3 973.8	396.1	793.0	2 333.9	7 541.4	8 113.1	15 431.0	523.5	3.00	126	98	19 024.5	
1963 CENSUS.	8 287	3 212	535.8	3 310.6	374.8	743.5	1 998.1	6 031.6	(NA)	(NA)	297.5	3.16	119	87	16 958.4	
WILMINGTON, DEL.-N.J.-MD., SMSA																
1977 CENSUS.	530	212	62.8	1 169.3	29.7	57.5	419.3	1 481.6	3 435.7	4 874.6	158.4	.32	100	100	19 596.9	
1976 ASM....	(NA)	(NA)	62.8	1 085.6	29.8	59.2	392.6	1 500.5	3 182.8	4 640.6	154.3	.33	100	96	18 753.0	
1975 ASM....	(NA)	(NA)	59.1	949.3	28.2	54.5	331.6	1 086.0	2 458.0	3 596.5	143.5	.32	94	94	18 302.2	
1974 ASM....	(NA)	(NA)	62.7	924.9	31.4	63.0	348.6	1 292.7	2 689.0	3 874.0	151.1	.32	100	102	19 844.8	
1973 ASM....	(NA)	(NA)	66.6	844.6	34.2	67.5	339.1	1 271.9	2 184.6	3 465.9	119.1	.33	106	102	19 897.9	
1972 CENSUS.	491	213	64.1	763.6	33.0	64.8	306.0	1 161.3	2 037.4	3 202.5	91.0	.34	102	98	19 028.7	
1971 ASM....	(NA)	(NA)	66.8	751.7	33.3	65.7	287.9	1 214.9	1 854.3	3 052.6	91.8	.36	106	94	18 363.1	
1970 ASM....	(NA)	(NA)	67.8	721.2	32.9	63.8	253.1	1 019.9	1 461.9	2 479.3	78.2	.35	108	99	19 217.2	
1969 ASM....	(NA)	(NA)	71.7	717.0	36.5	72.4	267.0	1 073.9	1 592.2	2 661.8	76.7	.36	114	103	20 035.5	
1968 ASM....	(NA)	(NA)	69.7	696.7	34.9	71.2	257.1	1 096.2	1 527.2	2 619.6	92.3	.36	111	100	19 527.6	
1967 CENSUS.	455	229	68.0	605.1	36.0	70.3	233.4	846.0	1 445.2	2 290.6	127.1	.35	108	99	19 323.2	
1966 ASM....	(NA)	(NA)	67.2	607.2	34.0	63.8	224.0	904.5	1 463.8	2 348.3	94.8	.35	107	98	19 024.5	
1965 ASM....	(NA)	(NA)	64.8	568.8	32.5	67.7	215.6	833.2	1 481.7	2 315.5	68.7	.36	103	92	18 010.2	
1964 ASM....	(NA)	(NA)	62.9	517.1	31.5	63.9	192.6	776.0	1 182.6	1 944.5	59.9	.36	100	89	17 268.5	
1963 CENSUS.	480	206	59.4	468.6	30.4	61.1	178.2	702.6	(NA)	(NA)	60.8	.35	95	87	16 958.4	

(NA) Not available.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
NEW JERSEY									
1977 CENSUS.....	14 037	63	1 952	5.82	56	77	29 364	48	23.91
1976 ASM.....	13 190	62	1 978	5.35	56	77	27 576	48	22.38
1975 ASM.....	12 201	62	1 941	5.07	56	78	23 746	51	19.73
1974 ASM.....	11 041	65	1 963	4.61	56	78	22 470	49	17.63
1973 ASM.....	10 098	66	1 946	4.28	51	75	20 838	48	16.30
1972 CENSUS.....	9 696	65	1 959	4.07	50	75	19 626	49	15.32
1971 ASM.....	9 113	65	1 978	3.79	50	75	18 071	50	14.06
1970 ASM.....	8 404	66	1 981	3.47	50	75	16 784	50	12.91
1969 ASM.....	7 968	67	1 984	3.33	51	75	16 137	49	12.13
1968 ASM.....	7 358	68	1 985	3.19	50	74	15 445	48	11.51
1967 CENSUS.....	7 177	69	1 994	3.01	51	76	14 454	50	10.58
1966 ASM.....	6 899	69	2 016	2.88	52	76	13 972	49	10.05
1965 ASM.....	6 628	69	2 015	2.79	52	76	13 332	50	9.55
1964 ASM.....	6 426	68	2 019	2.72	52	77	12 447	52	9.00
1963 CENSUS.....	6 176	69	1 996	2.64	(NA)	(NA)	12 008	51	8.69
NEW YORK-NEWARK-JERSEY CITY, N.Y.-N.J.-CONN., SCSA									
1977 CENSUS.....	13 568	61	1 901	5.33	52	76	27 056	50	23.25
1972 CENSUS.....	8 058	52	1 907	3.80	51	78	17 508	46	17.57
PHILADELPHIA-WILMINGTON-TRENTON, PA.-DEL.-N.J.-MD., SCSA									
1977 CENSUS.....	14 664	62	1 942	6.28	59	80	28 695	51	23.66
1972 CENSUS.....	14 547	92	1 958	4.22	51	77	18 415	79	10.26
ALLEN TOWN-BETHLEHEM-EASTON, PA.-N.J., SMSA									
1977 CENSUS.....	13 400	71	1 858	6.05	53	78	25 584	52	19.38
1976 ASM.....	12 518	69	1 906	5.46	56	80	23 078	54	17.49
1975 ASM.....	11 573	69	1 878	5.15	58	83	19 728	59	15.27
1974 ASM.....	10 618	71	1 922	4.68	57	81	20 285	52	14.87
1973 ASM.....	9 546	72	1 881	4.37	51	76	19 254	50	14.24
1972 CENSUS.....	8 882	73	1 849	3.98	50	77	16 355	54	12.12
1971 ASM.....	8 240	72	1 873	3.69	47	77	14 410	57	10.65
1970 ASM.....	7 668	73	1 883	3.41	49	78	13 932	55	10.12
1969 ASM.....	7 348	74	1 891	3.28	51	80	12 441	59	8.87
1968 ASM.....	6 958	73	1 892	3.13	49	79	11 991	58	8.66
1967 CENSUS.....	6 468	74	1 883	2.91	50	81	10 655	61	7.69
1966 ASM.....	6 193	75	1 912	2.74	51	81	10 346	60	7.23
1965 ASM.....	5 943	75	1 930	2.64	52	82	9 732	61	6.72
1964 ASM.....	5 777	74	1 892	2.56	50	81	9 465	61	6.72
1963 CENSUS.....	5 527	74	1 888	2.45	(NA)	(NA)	8 893	62	6.32
JERSEY CITY SMSA									
1977 CENSUS.....	12 045	75	1 873	5.53	58	77	27 456	44	19.67
1976 ASM.....	11 168	74	1 937	4.92	59	76	27 569	41	19.28
1975 ASM.....	10 995	73	1 948	4.81	57	75	26 126	42	18.44
1974 ASM.....	9 975	75	1 874	4.57	58	78	21 885	46	15.48
1973 ASM.....	9 386	75	1 914	4.22	55	76	20 609	46	14.27
1972 CENSUS.....	8 913	75	1 912	4.02	52	74	19 929	45	13.95
1971 ASM.....	8 354	75	1 920	3.78	50	72	19 115	44	13.33
NEW BRUNSWICK-PERTH AMBOY-SAYREVILLE SMSA									
1977 CENSUS.....	14 600	62	1 970	6.15	58	75	36 603	40	30.07
1971 ASM.....	8 386	54	2 006	3.74	497	748	17 158	49	15.91
1970 ASM.....	8 839	61	2 000	3.50	50	76	17 083	52	14.04
1969 ASM.....	8 196	63	1 992	3.33	50	75	16 490	50	13.14
1968 ASM.....	7 855	64	2 008	3.22	50	74	16 398	48	12.86
1967 CENSUS.....	7 427	65	2 018	3.01	51	75	15 438	48	11.86
1966 ASM.....	7 183	64	2 075	2.85	52	76	14 855	48	11.12
1965 ASM.....	6 894	64	2 036	2.76	53	76	14 057	49	10.73
1964 ASM.....	6 701	64	2 030	2.75	53	77	12 911	52	9.90
1963 CENSUS.....	6 450	64	2 008	2.65	(NA)	(NA)	12 053	54	9.37
NEW YORK, N.Y.-N.J., SMSA									
1977 CENSUS.....	12 946	61	1 860	4.97	52	77	24 954	52	21.85
1976 ASM.....	12 180	60	1 880	4.61	53	79	22 032	55	19.63
1975 ASM.....	11 735	59	1 882	4.40	53	80	20 228	58	18.24
1974 ASM.....	10 857	61	1 891	4.00	53	81	18 670	58	16.32
1973 ASM.....	9 743	63	1 857	3.78	52	80	16 689	58	14.30
1972 CENSUS.....	9 337	62	1 878	3.61	51	80	15 930	59	13.66
1971 ASM.....	8 715	62	1 892	3.44	49	78	15 354	57	13.12
1970 ASM.....	8 156	63	1 904	3.20	48	78	14 136	58	11.72
1969 ASM.....	7 711	64	1 917	3.04	49	79	13 316	58	10.77
1968 ASM.....	7 414	65	1 827	3.08	50	79	13 030	57	10.93
1967 CENSUS.....	7 071	65	1 915	2.76	50	80	12 030	59	9.62
1966 ASM.....	6 572	65	1 917	2.55	52	81	11 297	58	9.04
1965 ASM.....	6 303	66	1 923	2.48	52	80	10 814	58	8.55
1964 ASM.....	6 224	65	1 940	2.47	52	82	10 099	62	8.01
1963 CENSUS.....	5 971	66	1 913	2.42	(NA)	(NA)	9 944	60	7.85

See footnotes at end of table.

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years—Con.

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
NEWARK SMSA									
1977 CENSUS.....	15 084	57	1 976	5.92	55	77	30 811	49	27.39
1976 ASM.....	14 441	55	2 004	5.50	54	77	28 583	51	26.03
1975 ASM.....	12 926	55	1 933	5.08	54	79	23 974	54	22.40
1974 ASM.....	11 694	59	1 986	4.63	54	78	23 503	50	19.90
1973 ASM.....	10 849	59	1 977	4.38	49	74	21 996	49	18.82
1972 CENSUS.....	10 284	59	1 976	4.13	48	74	20 635	50	17.66
1971 ASM.....	8 386	54	2 006	3.74	49	74	17 158	49	15.91
1970 ASM.....	8 839	61	2 000	3.50	50	76	17 083	52	14.04
1969 ASM.....	8 196	63	1 992	3.33	50	75	16 490	50	13.14
1968 ASM.....	7 855	64	2 008	3.22	50	74	16 398	48	12.86
1967 CENSUS.....	7 427	65	2 018	3.01	51	75	15 438	48	11.86
1966 ASM.....	7 183	64	2 075	2.85	52	76	14 855	48	11.12
1965 ASM.....	6 894	64	2 036	2.76	53	76	14 057	49	10.73
1964 ASM.....	6 701	64	2 030	2.75	53	77	12 911	52	9.90
1963 CENSUS.....	6 450	64	2 008	2.65	(NA)	(NA)	12 053	54	9.37
PATERSON-CLIFTON-PASSAIC SMSA									
1977 CENSUS.....	13 126	68	1 956	5.52	49	76	25 253	52	19.11
1976 ASM.....	12 398	67	1 983	5.11	49	77	22 340	55	16.71
1975 ASM.....	11 668	65	1 977	4.98	49	77	20 487	57	15.59
1974 ASM.....	10 346	68	1 994	4.35	50	78	18 962	55	14.01
1973 ASM.....	8 987	73	1 904	3.94	46	76	16 816	53	12.17
1972 CENSUS.....	8 895	72	1 962	3.79	47	77	15 621	57	12.17
1971 ASM.....	8 980	66	1 989	3.64	50	78	16 351	55	12.48
1970 ASM.....	8 089	66	1 992	3.33	49	75	15 632	52	11.94
1969 ASM.....	7 895	66	2 003	3.30	52	78	14 650	54	11.10
1968 ASM.....	7 434	67	2 006	3.12	51	78	13 825	54	10.25
1967 CENSUS.....	6 952	69	1 998	2.91	51	77	13 193	53	9.61
1966 ASM.....	6 657	68	2 016	2.80	52	76	12 352	54	8.95
1965 ASM.....	6 393	69	2 050	2.69	52	77	12 150	53	8.58
1964 ASM.....	6 193	69	2 038	2.64	52	77	11 589	53	8.28
1963 CENSUS.....	5 967	70	2 016	2.59	(NA)	(NA)	11 348	53	8.10
PHILADELPHIA, PA.—N.J., SMSA									
1977 CENSUS.....	14 089	65	1 939	6.17	58	78	29 728	47	23.60
1976 ASM.....	13 221	65	1 927	5.71	58	79	25 779	50	21.32
1975 ASM.....	12 078	64	1 916	5.27	59	80	23 048	52	18.84
1974 ASM.....	10 945	66	1 941	4.83	58	79	21 904	50	17.13
1973 ASM.....	10 155	68	1 947	4.46	54	78	19 972	51	15.07
1972 CENSUS.....	9 632	67	1 944	4.21	52	77	18 539	52	14.26
1971 ASM.....	9 007	66	1 959	3.89	52	77	17 380	52	13.42
1970 ASM.....	8 463	67	1 968	3.64	52	78	15 934	53	12.16
1969 ASM.....	8 085	67	1 992	3.43	50	76	15 645	52	11.73
1968 ASM.....	7 618	68	1 989	3.24	51	77	14 592	52	10.82
1967 CENSUS.....	7 189	69	1 969	3.07	51	77	13 870	52	10.17
1966 ASM.....	6 959	69	2 002	2.94	53	78	13 207	53	9.51
1963 CENSUS.....	6 179	70	1 984	2.69	(NA)	(NA)	11 257	55	8.11
WILMINGTON, DEL.—N.J.—MD., SMSA									
1977 CENSUS.....	18 610	47	1 941	7.29	70	94	23 579	79	25.75
1976 ASM.....	17 287	47	1 987	6.63	69	92	23 893	72	25.35
1975 ASM.....	16 063	48	1 933	6.08	68	95	18 376	87	19.93
1974 ASM.....	14 751	50	2 006	5.53	69	93	20 617	72	20.52
1973 ASM.....	12 682	51	1 974	5.02	63	87	19 098	66	18.84
1972 CENSUS.....	11 913	51	1 964	4.72	64	87	18 117	66	17.92
1971 ASM.....	11 253	50	1 973	4.38	61	85	18 187	62	18.49
1970 ASM.....	10 637	49	1 939	3.97	59	88	15 043	71	15.99
1969 ASM.....	10 000	51	1 984	3.69	60	87	14 978	67	14.83
1968 ASM.....	9 996	50	2 040	3.61	58	85	15 727	64	15.40
1967 CENSUS.....	8 899	53	1 953	3.32	63	90	12 441	72	12.03
1966 ASM.....	9 036	51	1 876	3.51	62	88	13 460	67	14.18
1965 ASM.....	8 778	50	2 083	3.18	64	89	12 858	68	12.31
1964 ASM.....	8 221	50	2 029	3.01	61	87	12 337	67	12.14
1963 CENSUS.....	7 889	51	2 010	2.92	(NA)	(NA)	11 828	67	11.50

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹ -----	number -----	15 696	15 069
With 1 to 19 employees -----	do -----	9 921	9 151
With 20 to 99 employees -----	do -----	4 144	4 238
With 100 employees or more -----	do -----	1 631	1 680
All employees, average for year ¹ -----	1,000 -----	778.3	836.1
Payroll for year, all employees ¹ -----	mil. dollars --	10 924.2	8 107.2
Production workers:			
Average for year -----	1,000 -----	489.6	546.6
March -----	do -----	482.2	539.9
May -----	do -----	487.1	540.9
August -----	do -----	492.8	548.7
November -----	do -----	494.7	557.0
Hours -----	millions -----	955.8	1 070.9
January to March -----	do -----	233.5	264.0
April to June -----	do -----	243.7	271.3
July to September -----	do -----	235.1	260.9
October to December -----	do -----	243.5	274.7
Wages -----	mil. dollars --	5 561.7	4 353.7
Cost of materials, etc. ² -----	do -----	28 633.9	16 149.8
Materials, parts, containers, etc., consumed -----	do -----	25 229.0	14 253.3
Resales -----	do -----	1 541.0	887.3
Fuels consumed -----	do -----	619.1	254.9
Purchased electric energy -----	do -----	516.2	231.3
Contract work -----	do -----	728.6	523.1
Value of shipments, including resales ² -----	do -----	51 279.4	32 409.7
Value of resales -----	do -----	1 872.9	1 170.4
Value added by manufacture -----	do -----	22 852.8	16 408.9
Manufacturers' inventories:			
Beginning of year -----	do -----	6 561.2	4 405.6
Finished products -----	do -----	2 347.2	1 705.0
Work in process -----	do -----	1 846.5	1 281.1
Materials, supplies, fuel, etc. -----	do -----	2 367.5	1 419.5
End of year -----	do -----	6 965.5	4 511.7
Finished products -----	do -----	2 489.8	1 721.3
Work in process -----	do -----	1 914.2	1 351.3
Materials, supplies, fuel, etc. -----	do -----	2 561.5	1 439.1
Capital expenditures for plant and equipment -----	do -----	1 486.7	991.7
New capital expenditures -----	do -----	1 376.3	940.1
New buildings and other structures -----	do -----	297.5	222.8
New machinery and equipment -----	do -----	1 078.8	717.3
Used capital expenditures -----	do -----	110.4	51.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Including central administrative offices and auxiliaries (for definition, see appendix B).

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	317.8	3
Beginning of year.....	13,958.0	1	Buildings and other structures.....	179.9	3
New capital expenditures.....	1,421.5	1	Machinery and equipment.....	137.5	6
Used capital expenditures.....	129.6	9			
Retirements.....	500.8	3	Depreciation charges during 1977:		
End of year.....	15,008.2	1	Total.....	920.8	2
Buildings and other structures:			Buildings and other structures.....	169.6	2
Beginning of year.....	4,103.7	1	Machinery and equipment.....	751.2	2
New capital expenditures.....	296.5	4			
Used capital expenditures.....	(31.9)	16	Supplemental labor costs:		
Retirements.....	92.7	6	Total.....	1,788.0	1
End of year.....	4,339.3	1	Legal costs.....	748.4	1
Machinery and equipment:			Voluntary costs.....	1,039.6	1
Beginning of year.....	9,854.2	1			
New capital expenditures.....	1,125.0	1	Purchased services:		
Automobiles, trucks, etc., for highway use...	34.9	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	24.7	(NA)	Buildings and other structures.....	72.0	6
All other.....	819.1	(NA)	Response coverage ratio (percent).....	61	(X)
New machinery and equipment, n.s.k.....	246.3	(NA)	Machinery.....	(227.6)	46
Used capital expenditures.....	97.7	10	Response coverage ratio (percent).....	61	(X)
Retirements.....	408.2	3	Cost of purchased communication services.....	(119.3)	(A)
End of year.....	10,668.7	1	Response coverage ratio (percent).....	60	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Places: 1977 and 1972

[Includes places with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972		
		All establishments ²		All employees ²		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
New Jersey -----	-	15 696	5 775	778.3	10 924.2	489.6	955.8	5 561.7	22 852.8	28 633.9	51 279.4	1 376.3	836.1	16 408.9
STANDARD CONSOLIDATED STATISTICAL AREAS														
New York-Newark-Jersey City, N.Y.-N.J.-Conn. -----	-	41 325	13 366	1 502.0	20 379.2	919.2	1 747.6	9 319.5	40 638.1	44 236.4	84 486.0	1 949.6	1 694.5	29 668.0
Portion in New York -----	-	28 079	8 404	843.4	10 892.4	526.8	980.4	4 906.3	21 404.8	21 192.0	42 411.4	856.6	991.4	15 715.6
Portion in New Jersey -----	-	12 395	4 649	609.2	8 626.2	372.8	729.4	4 206.0	18 046.3	22 244.9	40 093.0	1 036.2	658.0	13 133.8
Philadelphia-Wilmington-Trenton, Pa.-Del.-N.J.-Md. -----	-	8 964	3 306	550.5	8 072.4	343.8	667.7	4 192.6	15 796.6	22 402.4	38 008.3	921.5	597.8	11 008.5
Portion in New Jersey -----	-	2 103	730	112.7	1 619.3	73.8	142.9	903.0	3 159.9	4 732.5	7 864.4	222.0	115.7	2 167.2
Portion in Pennsylvania -----	-	6 390	2 391	384.5	5 457.7	247.5	480.5	2 977.7	11 537.3	14 774.4	26 189.7	587.8	428.8	7 985.9
Portion in Delaware -----	-	419	160	50.7	966.4	20.7	40.6	294.8	1 035.3	2 798.4	3 792.3	107.4	49.6	803.1
Portion in Maryland -----	-	52	25	2.6	29.0	1.9	3.7	17.0	64.0	97.1	161.8	4.2	3.7	52.3
STANDARD METROPOLITAN STATISTICAL AREAS														
Allentown-Bethlehem-Easton, Pa.-N.J. ---	-	1 183	621	106.8	1 430.8	75.8	140.9	853.3	2 731.8	3 105.1	5 828.2	172.8	110.4	1 805.6
Portion in New Jersey -----	-	154	76	12.6	172.9	8.6	17.1	102.5	422.9	523.6	974.2	39.4	14.5	349.2
Portion in Pennsylvania -----	-	1 029	545	94.2	1 257.9	67.2	123.8	750.8	2 308.9	2 581.5	4 853.9	133.4	95.9	1 456.4
Atlantic City -----	-	211	66	8.7	88.7	7.0	13.1	64.7	284.4	147.7	430.4	(D)	10.4	225.5
Jersey City -----	-	1 857	655	72.2	870.1	53.8	100.8	557.5	1 983.4	2 733.7	4 702.1	94.6	95.3	1 899.2
Long Branch-Asbury Park -----	-	616	181	26.6	351.8	15.9	31.0	155.6	755.3	719.6	1 471.9	29.5	26.1	465.8
New Brunswick-Perth Amboy-Sayreville -----	-	1 147	540	80.5	1 174.7	49.7	97.9	602.3	2 945.2	3 986.3	6 864.2	164.7	80.5	2 021.7
New York, N.Y.-N.J. -----	-	25 831	8 040	796.6	10 313.0	489.0	909.7	4 519.2	19 878.3	21 494.9	41 187.9	862.5	949.2	15 120.8
Portion in New York -----	-	23 252	7 136	687.5	8 793.4	425.2	783.6	3 806.7	17 034.5	17 811.4	34 681.7	660.0	839.0	13 162.4
Portion in New Jersey -----	-	2 579	904	109.1	1 519.7	63.8	126.1	712.5	2 843.8	3 683.6	6 506.1	202.6	110.2	1 958.4
Newark -----	-	4 638	1 733	255.5	3 853.3	145.5	287.4	1 702.3	7 870.8	9 520.5	17 304.3	461.5	271.8	5 608.6
Paterson-Clifton-Passaic -----	E1	1 558	636	65.3	856.5	44.1	86.2	475.8	1 647.8	1 601.2	3 244.3	83.3	75.5	1 179.4
Philadelphia, Pa.-N.J. -----	-	7 946	2 909	451.8	6 364.7	293.5	569.0	3 510.6	13 429.6	18 223.2	31 507.5	723.4	495.7	9 189.9
Portion in New Jersey -----	-	1 556	518	67.2	907.0	46.0	88.5	532.9	1 892.3	3 448.8	5 317.8	135.6	69.3	1 255.8
Portion in Pennsylvania -----	-	6 390	2 391	384.5	5 457.7	247.5	480.5	2 977.7	11 537.3	14 774.4	26 189.7	587.8	426.3	7 934.1
Trenton -----	-	488	185	35.9	538.4	20.7	41.1	262.7	885.4	743.4	1 626.2	39.7	35.6	608.0
Vineland-Millville-Bridgeton -----	-	254	104	18.9	223.2	15.5	29.3	167.8	500.9	432.0	927.1	37.1	22.5	313.6
Wilmington, Del.-N.J.-Md. -----	-	530	212	62.8	1 169.3	29.7	57.5	419.3	1 481.6	3 435.7	4 874.6	158.4	64.1	1 161.3
Portion in New Jersey -----	-	59	27	9.6	174.0	7.1	13.3	107.5	382.2	540.2	920.4	(D)	10.8	306.6
Portion in Delaware -----	-	419	160	50.7	966.4	20.7	40.6	294.8	1 035.3	2 798.4	3 792.3	107.4	49.6	803.1
Portion in Maryland -----	-	52	25	2.6	29.0	1.9	3.7	17.0	64.0	97.1	161.8	(D)	3.7	51.6
COUNTIES														
Atlantic -----	-	211	66	8.7	88.7	7.0	13.1	64.7	284.4	147.7	430.4	(D)	10.4	225.5
Bergen -----	-	2 579	904	109.1	1 519.7	63.8	126.1	712.5	2 843.8	3 683.6	6 506.1	202.6	110.2	1 958.4
Burlington -----	-	486	169	21.1	272.3	14.6	28.0	165.7	590.9	635.9	1 225.2	36.4	21.7	412.5
Camden -----	-	806	253	32.8	446.2	22.0	42.2	253.2	952.1	1 102.5	2 033.7	53.0	35.9	638.2
Cape May -----	E1	76	12	0.9	8.2	0.7	1.1	5.5	11.8	22.7	34.4	0.9	1.3	13.6
Cumberland -----	-	254	104	18.9	223.2	15.5	29.3	167.8	500.9	432.0	927.1	37.1	22.5	313.6
Essex -----	-	2 006	710	86.1	1 195.1	54.8	106.1	586.7	2 460.2	2 272.2	4 751.1	118.1	104.0	1 912.4
Gloucester -----	-	264	96	13.3	188.4	9.4	18.2	114.0	349.2	1 710.4	2 058.9	46.2	11.8	205.1
Hudson -----	-	1 857	655	72.2	870.1	53.8	100.8	557.5	1 983.4	2 733.7	4 702.1	94.6	95.3	1 899.2
Hunterdon -----	-	148	58	6.0	80.6	3.9	8.0	43.9	181.1	302.0	481.4	11.8	4.2	85.7
Mercer -----	-	488	185	35.9	538.4	20.7	41.1	262.7	885.4	743.4	1 626.2	39.7	35.6	608.0
Middlesex -----	-	1 147	540	80.5	1 174.7	49.7	97.9	602.3	2 945.2	3 986.3	6 864.2	164.7	80.5	2 021.7
Monmouth -----	-	616	181	26.6	351.8	15.9	31.0	155.6	755.3	719.6	1 471.9	29.5	26.1	465.8
Morris -----	-	774	259	48.4	796.8	20.2	39.7	219.1	1 148.4	887.3	1 998.7	56.7	43.0	833.5
Ocean -----	-	242	53	6.4	75.3	5.0	9.9	50.0	184.4	163.8	348.5	16.0	5.1	76.6
Passaic -----	E1	1 558	636	65.3	856.5	44.1	86.2	475.8	1 647.8	1 601.2	3 244.3	83.3	75.5	1 179.4
Salem -----	-	59	27	9.6	174.0	7.1	13.3	107.5	382.2	540.2	920.4	(D)	10.8	306.6
Somerset -----	-	360	140	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	25.8	627.3
Sussex -----	-	113	27	2.9	29.8	2.1	5.0	18.3	61.2	64.7	126.1	3.1	2.8	41.3
Union -----	-	1 498	624	92.6	1 419.0	55.7	112.5	705.3	3 265.8	5 651.7	8 876.9	183.5	99.0	2 235.3
Warren -----	-	154	76	12.6	172.9	8.6	17.1	102.5	422.9	523.6	974.2	39.4	14.5	349.2
PLACES														
Asbury Park -----	-	26	9	1.4	9.8	0.5	0.8	3.7	18.1	19.3	37.3	1.2	1.3	13.5
Atlantic City -----	E3	46	14	0.9	8.5	0.7	1.4	5.9	13.6	12.3	25.9	0.5	1.8	16.3
Barrington -----	-	9	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Bayonne -----	-	94	49	5.0	62.1	3.7	7.1	39.7	159.6	332.2	494.4	11.9	6.2	119.4
Belleville -----	-	124	32	4.5	58.8	2.9	6.0	33.2	121.9	91.0	214.3	7.3	7.9	168.8
Bellmawr -----	-	34	8	0.9	10.7	0.6	1.2	6.6	20.1	26.5	46.8	0.7	1.0	13.5
Belmar -----	-	11	4	0.5	4.3	0.4	0.6	3.1	10.0	6.8	16.3	(D)	0.5	3.4
Belvidere -----	-	11	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Bergenfield -----	E2	40	8	0.9	8.0	0.4	0.7	3.6	11.0	7.5	18.4	0.5	0.6	8.2
Berkeley Heights twp -----	-	25	16	1.5	20.0	0.8	1.7	8.9	40.7	26.4	65.0	1.7	1.3	23.9
Bloomfield -----	-	95	35	5.8	77.9	3.7	7.6	38.2	89.1	117.4	204.2	3.8	7.9	65.7
Bogota -----	-	15	4	0.7	8.2	0.5	1.1	7.0	19.1	53.7	72.5	(D)	(NA)	(NA)
Boonton -----	-	35	10	1.4	14.5	0.8	1.5	7.6	24.8	30.6	55.5	1.2	2.5	37.3
Bound Brook -----	-	30	9	2.2	32.5	1.3	2.6	17.7	104.9	99.5	210.2	(D)	5.6	144.0
Bridgeton -----	-	39	19	3.9	48.9	3.4	6.5	40.0	107.8	136.5	243.8	8.9	5.8	87.3
Bridgewater twp -----	-	39	22	8.6	135.2	3.6	6.9	49.8	347.0	160.9	500.7	43.1	3.2	100.2
Buena -----	-	15	9	1.0	11.8	0.8	1.6	8.0	22.5	22.8	45.3	2.9	0.7	10.0
Burlington -----	E1	40	12	1.6	17.3	1.3	2.6	12.6	55.3	35.4	90.4	2.9	3.1	55.5
Burlington twp -----	-	12	8	1.5	20.3	1.0	2.1	12.5	67.2	102.2	170.9	(D)	1.3	13.5
Butler -----	-	24	8	0.6	6.7	0.4	0.9	3.9	11.8	16.3	28.1	0.9	1.0	14.0
Camden -----	-	177	62	12.2	184.2	7.7	14.7	96.4	346.0	406.8	736.8	17.8	15.7	262.5
Carlstadt -----	E1	160	93	7.2	90.0	5.0	9.6	51.2	189.3	223.0	406.3	18.6	7.6	120.4
Carteret -----	-	43	26	3.5	53.6	2.7	5.6	39.5	163.9	251.9	414.1	13.0	4.4	94.4

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Places: 1977 and 1972—Con.

[Includes places with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972			
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mill- ions)	Wages (million dollars)							
PLACES—Con.															
Cedar Grove twp	-	38	20	1.5	17.7	1.1	2.2	11.0	37.6	27.5	64.0	3.0	1.5	22.9	
Chatham	E1	36	8	0.6	8.9	0.4	0.7	3.3	12.2	6.7	19.0	0.5	(NA)	(NA)	
Cherry Hill twp	E1	122	37	4.9	67.7	2.6	4.6	27.7	113.8	91.5	203.2	5.6	4.2	58.9	
Cinnaminson twp	-	43	20	1.9	26.4	1.3	2.8	17.0	76.8	89.7	166.1	5.3	1.3	8.6	
Clark twp	-	26	14	4.6	83.9	3.3	6.7	59.5	183.6	105.9	289.2	9.6	7.7	94.4	
Clifton	-	304	125	13.2	185.3	8.2	16.5	88.9	361.5	356.6	714.2	19.3	15.7	258.9	
Closter	-	14	6	1.0	9.6	0.8	1.8	7.0	18.1	24.2	43.6	0.8	0.7	10.9	
Cranford twp	-	56	25	3.1	36.6	2.0	4.1	22.5	138.8	72.9	214.1	4.2	3.3	102.5	
Cresskill	-	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Denville twp	E3	29	7	0.8	8.2	0.6	1.1	5.1	17.0	11.9	28.8	0.7	1.2	13.1	
Dover	-	34	12	1.5	17.1	1.0	2.1	10.6	37.2	51.5	88.2	2.1	2.5	78.0	
Dover twp	-	49	13	2.0	31.0	1.4	2.8	19.4	94.3	84.4	182.3	(D)	2.0	36.0	
East Brunswick twp	-	49	14	2.6	42.6	0.8	1.4	9.8	29.0	44.3	72.4	1.9	1.4	22.3	
East Orange	E1	73	26	2.8	29.0	2.1	3.8	17.9	53.8	51.0	108.7	3.0	3.4	58.0	
East Rutherford	-	84	35	6.4	95.5	3.1	6.5	41.2	149.0	176.0	320.2	9.6	7.3	129.0	
East Windsor twp	-	15	8	2.7	44.3	0.3	0.4	4.5	32.1	14.9	47.5	(D)	(NA)	(NA)	
Eatontown	-	15	4	0.9	12.7	0.6	1.3	7.0	29.8	12.9	41.8	1.3	0.8	13.5	
Edgewater	-	31	13	1.6	24.9	1.0	1.9	12.6	44.6	192.1	245.1	1.3	2.2	57.5	
Edison twp	-	146	79	15.5	223.2	10.1	19.5	127.7	588.7	959.3	1 534.6	28.2	12.8	407.9	
Egg Harbor City	-	21	8	0.8	7.5	0.7	1.3	6.4	13.0	8.5	21.3	0.2	1.5	21.7	
Elizabeth	-	237	109	17.2	219.1	11.5	22.4	124.0	453.1	653.8	1 089.5	34.1	15.4	301.4	
Elmwood Park	-	70	34	3.5	35.5	2.6	5.1	22.2	104.3	94.8	197.4	17.7	(NA)	(NA)	
Englewood	-	116	48	3.4	44.6	2.2	4.6	24.4	120.5	104.9	224.4	5.1	3.4	74.8	
Englewood Cliffs	-	37	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.6	30.5	
Ewing twp	-	57	20	5.4	96.7	4.5	9.3	77.3	211.7	109.2	317.0	12.4	5.1	115.6	
Fairfield	E1	206	76	5.8	75.3	3.9	7.3	40.2	145.2	115.9	259.8	6.0	5.6	102.9	
Fair Lawn	-	72	36	5.0	67.8	3.5	7.0	42.0	192.4	153.3	340.7	6.9	4.6	121.0	
Fairview	E2	129	24	1.6	17.9	1.4	2.7	12.9	29.2	38.4	67.4	1.0	1.3	22.0	
Flemington	-	35	16	1.1	15.7	0.7	1.3	7.5	33.2	117.2	150.3	3.1	1.6	43.5	
Florham Park	-	14	9	4.1	83.8	1.0	1.6	12.9	83.3	44.4	124.2	(D)	(D)	(D)	
Fort Lee	E2	40	9	0.8	11.2	0.3	0.6	2.9	12.2	10.4	22.2	0.3	0.7	6.3	
Franklin	-	9	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Franklin twp	E1	53	23	2.5	33.5	1.7	3.2	19.2	65.5	85.1	147.6	6.4	1.4	24.2	
Franklin Lakes	-	29	6	1.6	38.3	0.2	0.4	1.9	10.0	10.1	19.7	0.2	3.2	5.0	
Freehold	-	24	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Freehold twp	-	20	13	2.4	28.7	1.7	3.5	17.8	87.5	79.6	165.9	2.7	1.6	43.3	
Garfield	E1	133	43	4.2	48.1	3.2	6.1	30.0	99.7	96.6	195.9	4.6	4.8	66.7	
Garwood	E1	38	15	1.8	21.4	1.4	2.8	13.9	44.1	34.9	78.7	2.0	1.7	28.7	
Glassboro	-	26	10	1.1	13.1	0.9	1.6	9.5	27.9	37.6	65.6	0.9	1.2	18.6	
Glen Rock	E1	18	4	0.7	7.8	0.1	0.3	1.4	9.2	4.5	13.8	0.1	0.8	2.2	
Gloucester twp	-	36	15	1.2	12.6	0.9	1.8	7.9	29.9	26.5	55.9	0.5	1.0	17.3	
Gloucester City	-	33	12	1.2	15.9	0.9	1.8	11.1	46.5	63.5	108.9	3.5	1.3	21.7	
Guttenberg	E4	83	10	0.8	7.4	0.7	1.3	5.5	15.6	12.7	28.3	0.8	0.8	11.9	
Hackensack	E1	196	48	5.1	58.1	3.5	6.5	32.3	120.1	92.0	209.5	7.7	6.2	103.1	
Hackettstown	-	22	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	66.9	
Haledon	-	24	9	1.1	13.5	0.9	1.7	8.9	25.6	66.1	90.2	1.3	1.0	16.6	
Hamilton twp	-	88	31	5.1	65.4	3.8	7.7	45.8	149.6	170.7	322.3	5.9	4.1	105.8	
Hammonton	-	35	10	2.2	22.2	1.9	3.4	17.7	122.7	34.8	156.4	1.0	2.6	106.9	
Hanover twp	E1	69	36	7.6	130.7	2.7	5.5	31.9	142.1	132.3	261.7	15.9	8.4	89.0	
Harrison	-	42	19	4.3	62.6	2.5	5.2	29.2	124.0	119.3	239.3	10.9	9.5	140.4	
Hawthorne	-	103	39	2.8	36.1	2.1	4.2	23.0	75.8	78.6	153.9	2.8	3.3	59.3	
Highland Park	E1	18	6	0.6	8.7	0.4	0.7	4.6	18.2	9.8	28.0	0.1	0.5	9.1	
Hightstown	-	14	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	31.6	
Hillsborough twp	-	21	7	0.5	7.2	0.4	0.8	4.7	59.3	46.0	106.4	5.1	(NA)	(NA)	
Hillside twp	-	110	46	5.6	78.0	3.6	7.0	44.0	247.4	202.9	449.5	10.6	6.2	196.0	
Hoboken	-	189	99	8.5	101.1	6.9	14.1	74.0	161.8	519.0	674.3	8.7	11.2	282.5	
Hopewell twp	-	5	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Irvington	-	121	32	2.7	33.3	2.0	3.9	19.8	66.7	64.1	131.0	2.1	6.1	56.1	
Jersey City	-	402	166	19.1	220.8	13.4	24.1	133.1	649.8	633.1	1 286.8	(D)	23.2	576.9	
Kearny	-	130	62	11.8	185.5	8.4	15.5	118.2	425.4	455.8	878.9	17.6	17.6	373.0	
Kenilworth	-	113	43	5.7	81.7	3.4	6.9	39.6	149.9	123.0	269.8	9.2	5.5	105.4	
Keyport	-	21	7	0.5	5.6	0.4	0.8	3.8	16.4	33.7	49.9	1.5	0.7	8.5	
Lakewood twp	-	64	22	3.3	33.2	2.8	5.6	23.4	68.3	56.7	121.8	4.1	1.8	23.2	
Lawrence twp	-	22	12	2.7	46.5	0.8	1.6	7.8	25.3	17.9	43.1	1.0	1.7	15.5	
Linden	-	205	94	16.9	308.6	11.6	24.3	187.8	916.8	3 716.4	4 623.2	57.5	18.8	627.2	
Little Falls twp	-	46	21	2.0	23.2	1.4	2.7	13.9	46.8	48.1	94.9	3.0	4.4	43.5	
Little Ferry	-	48	17	1.0	12.8	0.7	1.5	8.2	35.4	22.9	54.4	2.3	1.1	19.9	
Livingston twp	-	51	15	3.7	66.3	0.7	1.6	7.5	30.3	18.4	50.0	(D)	3.2	27.2	
Lodi	E2	79	30	2.5	30.7	1.7	3.4	15.7	58.8	85.0	144.9	5.0	3.0	46.2	
Long Branch	E1	43	15	1.2	10.5	1.0	1.8	6.7	18.0	12.1	29.8	0.5	1.4	15.0	
Lyndhurst twp	-	60	22	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	35.3	
Mahwah twp	-	29	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Manville	-	19	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Maple Shade twp	-	31	9	0.7	7.9	0.4	0.7	3.6	12.0	17.5	29.6	1.1	0.8	11.3	
Maplewood twp	E2	38	6	0.7	7.8	0.5	1.0	5.1	12.5	11.5	24.0	0.9	0.8	11.6	
Marlboro twp	-	26	10	0.7	8.3	0.5	0.9	4.9	14.4	15.6	31.0	0.9	0.8	12.3	
Matawan twp	-	12	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Maywood	-	18	10	0.8	9.3	0.5	1.0	5.6	22.2	29.9	53.3	1.9	0.8	19.6	
Metuchen	-	44	15	1.2	15.6	1.0	1.9	9.3	61.6	45.7	102.4	1.0	1.3	35.8	
Middlesex	-	92	25	2.2	27.4	1.6	3.5	16.3	74.1	69.3	134.6	4.0	1.9	40.7	
Midland Park	E1	34	6	0.6	7.8	0.4	0.8	4.1	17.5	14.0	31.3	(D)	0.7	17.4	
Milltown	-	11	6	0.9	11.7	0.7	1.4	7.9	16.8	37.8	54.1	1.4	1.5	27.6	
Millville	-	58	22	6.4	81.7	5.2	10.0	59.7	178.6	114.0	292.0	15.4	7.9	110.8	

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Places: 1977 and 1972—Con.

[Includes places with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972			
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)							
PLACES—Con.															
Monroe twp	-	25	11	1.0	8.2	0.8	1.3	6.0	14.3	7.5	21.5	0.6	0.5	6.8	
Montclair	E2	51	10	0.8	9.5	0.5	0.9	3.8	11.1	6.7	17.5	0.5	(NA)	(NA)	
Montvale	-	16	8	1.4	36.2	0.1	0.3	1.7	5.8	6.0	11.8	0.3	(D)	(D)	
Montville twp	E1	43	13	1.2	14.8	0.6	1.2	6.5	21.5	17.2	38.4	1.0	0.7	9.3	
Moonachie	-	60	39	4.3	49.5	3.1	6.1	31.3	102.9	111.9	212.7	7.6	3.8	72.7	
Moorestown twp	-	51	19	4.4	78.7	3.0	5.8	50.6	139.4	125.4	264.3	4.7	3.9	105.1	
Morris twp	-	30	16	5.1	110.7	0.7	1.5	8.7	83.8	71.8	155.3	1.7	(D)	(D)	
Morris Plains	-	11	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.7	70.1	
Morristown	-	28	4	0.9	8.8	0.3	0.6	3.9	16.8	8.6	25.3	0.5	3.9	112.7	
Mountainside	-	38	20	1.7	24.1	1.1	2.3	13.8	44.9	35.7	79.0	3.3	1.7	28.6	
Mount Holly twp	E1	27	12	1.0	9.0	0.8	1.4	6.2	14.2	13.8	27.7	1.0	1.0	13.8	
Mount Laurel twp	E1	19	6	1.2	12.0	0.8	1.5	6.7	19.1	13.1	32.7	1.2	(D)	(D)	
Neptune twp	E3	31	15	1.0	9.0	0.8	1.5	5.7	15.4	13.9	29.2	0.9	1.0	15.0	
Netcong	E3	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	8.9	
Newark	-	906	367	38.6	489.0	27.6	52.8	297.6	1 058.0	1 345.8	2 396.6	51.2	47.3	803.8	
New Brunswick twp	-	94	47	6.0	92.5	3.3	6.4	39.2	133.0	185.9	310.5	7.4	7.1	127.1	
New Providence	-	25	15	6.5	130.5	1.2	2.5	11.1	57.7	57.1	113.6	1.3	7.3	41.4	
Newton	E2	26	8	0.5	5.2	0.3	0.6	2.8	11.9	9.0	21.0	0.3	0.7	9.7	
North Arlington	E1	24	5	0.5	5.9	0.3	0.6	2.3	11.9	7.5	18.5	1.0	0.7	11.0	
North Bergen twp	E1	207	73	8.3	98.4	6.6	12.6	67.7	210.3	324.0	530.6	6.9	11.1	189.2	
North Brunswick twp	-	27	14	7.8	138.5	4.5	9.5	68.7	430.0	259.1	674.9	28.0	9.2	315.0	
North Plainfield	-	20	6	1.8	31.7	1.2	2.3	17.1	46.5	28.0	72.8	(D)	0.5	5.7	
Northvale	-	46	25	2.2	25.9	1.5	2.9	13.5	66.5	86.9	153.1	2.1	1.8	40.5	
Norwood	-	31	11	1.0	11.1	0.7	1.3	5.9	19.7	21.2	40.7	2.1	0.6	11.5	
Nutley	-	46	15	10.1	211.9	3.9	8.0	53.5	615.3	221.3	864.7	29.5	10.3	446.8	
Oakland	E1	27	14	1.3	15.5	0.8	1.6	8.0	51.2	34.0	83.9	1.6	0.6	8.2	
Oceanport	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Old Bridge twp	-	13	8	0.5	5.0	0.3	0.7	3.3	12.3	8.7	20.9	1.3	(NA)	(NA)	
Orange	E1	76	22	2.4	30.6	1.3	2.4	12.5	35.7	22.8	58.3	1.2	3.0	37.0	
Palisades Park	-	58	14	1.6	22.6	1.0	1.9	10.5	66.0	100.2	165.8	3.6	2.0	35.7	
Paramus	-	61	25	2.8	39.4	1.2	2.1	11.9	48.0	44.8	89.9	1.8	2.2	27.1	
Parsippany-Troy Hills twp	-	54	34	5.0	78.6	2.2	4.4	22.1	181.1	118.1	293.4	3.9	4.1	116.9	
Passaic	E1	233	109	10.4	108.9	8.1	15.7	75.4	210.4	215.0	423.6	8.1	14.3	212.5	
Paterson	E1	567	233	18.6	214.0	14.5	27.8	143.1	470.4	502.8	971.8	22.8	23.7	370.7	
Paulsboro	-	11	8	0.5	5.2	0.4	0.7	3.7	21.3	25.9	47.1	0.8	1.2	4.6	
Pennsauken twp	-	161	71	6.8	82.8	5.0	9.5	53.0	192.6	318.5	508.7	11.5	7.0	148.0	
Pennsville twp	-	5	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Perth Amboy	-	96	43	4.5	48.4	3.5	6.6	32.7	202.6	644.1	844.4	17.2	7.8	129.6	
Phillipsburg	-	37	21	5.5	78.8	3.3	6.5	42.6	169.3	175.5	354.9	14.6	5.5	99.3	
Piscataway twp	-	63	43	7.0	110.7	3.2	6.1	35.5	173.9	166.4	334.9	16.4	4.3	96.0	
Pitman	-	21	6	2.3	25.2	1.9	3.9	18.6	47.1	49.0	94.7	2.4	2.1	26.3	
Plainfield	-	72	23	2.2	25.8	1.7	4.7	16.5	57.9	52.2	110.3	1.4	2.6	50.5	
Pleasantville	E2	23	7	0.5	5.7	0.3	0.6	3.4	17.2	11.0	27.8	(D)	0.5	11.9	
Pompton Lakes	-	27	9	1.0	16.2	0.7	1.4	9.3	34.4	17.2	51.8	1.2	1.0	17.4	
Princeton	-	41	10	2.1	42.5	0.9	1.7	16.8	53.3	29.4	80.5	1.5	2.0	43.0	
Princeton twp	-	32	12	0.7	9.4	0.4	0.7	3.6	18.2	6.3	24.2	0.7	0.9	2.8	
Rahway	-	82	31	7.1	124.7	3.1	6.1	38.2	244.3	104.5	347.8	15.8	4.9	106.9	
Ramsey	-	21	9	0.8	10.9	0.3	0.6	3.1	11.9	9.8	21.7	0.8	0.5	6.7	
Randolph twp	E1	29	5	0.5	5.6	0.3	0.5	3.1	12.3	11.8	23.2	0.8	(NA)	(NA)	
Raritan	-	24	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Red Bank	E1	34	8	0.5	4.8	0.4	0.5	3.0	10.9	5.8	16.2	0.4	0.9	9.9	
Ridgefield	-	53	26	4.3	65.7	2.5	5.2	26.8	106.3	130.0	241.6	2.7	4.3	97.6	
Ridgefield Park	E2	26	10	0.8	11.0	0.6	1.2	7.4	20.5	23.3	46.1	1.5	0.7	18.1	
Rockaway	E1	35	10	1.0	13.0	0.7	1.4	6.7	27.0	17.0	44.4	0.8	1.4	30.3	
Rockaway twp	-	21	11	1.9	24.5	1.2	2.4	13.4	55.3	52.3	105.8	2.6	1.3	25.7	
Roseland	-	21	13	1.9	25.5	1.2	2.0	12.0	60.8	72.8	130.2	2.7	1.4	30.3	
Roselle	E3	92	29	2.1	23.3	1.6	2.9	15.7	42.1	40.5	82.6	3.7	2.6	43.5	
Roselle Park	E1	29	6	0.6	6.8	0.5	0.9	4.7	11.0	7.9	18.9	(D)	2.4	41.6	
Roxbury twp	E2	27	9	1.0	12.1	0.7	1.5	8.3	28.4	21.8	49.6	1.1	0.8	15.6	
Rutherford	-	44	11	1.4	18.3	0.9	1.6	9.6	48.0	50.6	94.4	3.1	1.6	26.5	
Saddle Brook twp	E1	77	34	4.0	47.3	2.8	5.6	27.7	94.8	95.4	191.3	5.8	3.4	59.9	
Salem	-	12	8	1.6	17.2	1.4	2.4	14.5	36.2	28.6	65.4	(D)	(D)	(D)	
Sayreville	-	33	13	4.5	77.5	3.2	6.2	46.0	235.2	273.2	500.9	9.0	3.6	111.7	
Secaucus	-	53	29	2.9	32.0	1.8	3.2	16.8	60.9	142.8	202.8	1.9	2.4	43.2	
Somerville	-	56	18	3.0	52.7	1.3	2.4	14.4	67.0	34.9	101.0	7.5	4.8	85.1	
South Brunswick twp	-	47	29	3.4	52.0	1.8	3.7	22.5	165.9	170.8	335.1	4.8	3.3	73.8	
South Plainfield	-	124	59	5.4	66.8	3.8	7.8	38.6	154.9	225.8	379.3	5.8	4.3	89.3	
South River	-	40	17	1.2	8.1	1.1	1.7	7.2	13.9	6.7	20.5	(D)	1.2	10.5	
Spotswood	-	5	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Springfield twp	-	62	27	2.5	37.2	1.6	3.1	18.5	57.0	75.2	131.2	3.7	2.2	35.3	
Stanhope	-	10	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Summit	-	35	8	2.6	48.4	0.4	0.9	6.3	137.1	34.9	173.5	(D)	3.1	89.3	
Teaneck twp	E1	39	14	1.5	15.4	0.7	1.4	5.8	22.8	18.4	41.0	0.6	1.0	9.7	
Tinton Falls	-	15	10	1.0	12.6	0.5	1.1	4.4	21.1	20.3	40.9	1.0	(NA)	(NA)	
Totowa	-	48	27	3.8	51.9	2.1	4.1	26.8	154.7	118.8	273.2	9.2	3.2	72.8	
Trenton	-	173	71	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	16.3	237.8	
Union twp	-	191	94	10.5	142.6	6.3	12.4	76.6	424.0	294.1	712.1	12.6	11.3	297.5	
Union Beach	-	5	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Union City	E2	293	61	4.6	39.8	3.9	6.6	29.3	67.7	45.2	113.8	2.3	5.7	65.9	
Vineland	-	124	52	7.5	80.9	6.2	11.4	60.1	176.5	136.8	308.9	10.4	7.6	94.0	
Wall twp	E1	25	9	0.8	8.7	0.6	1.2	5.2	21.6	23.3	44.2	1.1	0.6	9.4	
Wallington	E2	35	12	1.2	12.4	1.0	1.9	8.8	23.2	21.2	44.5	0.8	(D)	(D)	
Wanaque	-	19	6	0.6	6.7	0.4	0.9	4.3	19.9	22.3	41.2	(D)	1.2	20.9	

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Places: 1977 and 1972—Con.

[Includes places with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977										1972			
	E ¹	All establishments ²		All employees ²		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
PLACES—Con.														
Washington -----	-	16	8	1.1	12.1	1.0	1.8	9.2	27.2	31.0	58.5	3.0	1.7	30.5
Washington twp -----	-	18	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Wayne twp -----	E1	86	34	6.6	114.9	2.2	4.6	26.2	136.5	112.8	245.4	7.2	6.4	87.5
West Caldwell -----	-	31	18	2.3	30.6	1.6	3.3	18.0	54.9	53.6	108.4	2.6	1.8	35.5
West Deptford twp -----	-	20	10	1.0	14.5	0.7	1.4	8.6	57.7	70.3	127.1	2.8	0.6	15.9
West Long Branch -----	-	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
West New York -----	E3	294	56	4.8	40.4	4.3	8.0	30.4	67.9	87.7	152.2	(D)	5.4	60.6
West Orange -----	E1	54	14	1.3	16.2	0.8	1.5	7.4	37.3	23.8	61.4	2.0	2.4	22.3
West Paterson -----	-	29	9	4.4	76.7	3.0	5.8	50.3	92.5	49.5	151.6	(D)	0.5	8.1
Westville -----	-	19	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Westwood -----	E1	42	8	0.5	6.1	0.4	0.7	3.2	13.2	6.9	19.9	1.4	0.5	8.0
Wharton -----	-	15	5	1.6	22.3	1.1	2.2	14.9	47.1	38.9	86.6	2.8	1.4	34.5
Winslow twp -----	-	14	7	0.9	11.9	0.7	1.5	8.8	37.8	28.7	66.7	(D)	0.6	17.9
Woodbridge twp -----	-	111	61	8.4	117.4	4.9	9.9	60.9	276.5	416.0	696.1	14.3	7.7	203.6
Wood-Ridge -----	-	20	9	2.1	39.0	1.0	1.9	12.9	66.7	68.0	135.7	1.8	3.6	83.7
Wyckoff twp -----	E2	22	9	0.9	10.1	0.7	1.3	6.5	20.3	32.4	52.9	0.7	0.7	13.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	All industries -----	-	15 696	5 775	778.3	10 924.2	489.6	955.8	5 561.7	22 852.8	28 633.9	51 279.4	1 376.3	836.1	16 408.9
20	Food and kindred products -----	-	753	329	43.2	595.8	30.8	60.5	380.1	1 996.4	4 063.4	5 072.5	108.5	53.7	1 513.0
201	Meat products -----	-	96	45	4.4	56.4	3.7	7.3	42.2	110.5	538.1	649.1	12.0	5.2	111.9
2011	Meat packing plants -----	E1	31	7	0.7	9.8	0.6	1.2	8.0	25.6	164.9	191.4	0.5	1.3	55.7
2013	Sausages and other prepared meats -----	-	50	28	2.2	34.0	1.7	3.5	24.4	60.1	298.8	359.2	8.2	3.0	45.4
2016	Poultry dressing plants -----	E4	7	5	0.9	6.4	0.8	1.5	5.4	11.0	21.1	31.7	2.2	CC	(D)
2017	Poultry and egg processing --	-	8	5	0.7	6.2	0.6	1.1	4.3	13.8	53.3	66.8	1.1	AA	(D)
202	Dairy products -----	E1	78	30	2.6	37.7	1.4	3.0	18.5	91.1	349.5	440.2	6.7	3.0	70.5
2022	Cheese, natural and processed -----	-	13	4	0.3	3.0	0.2	0.4	1.7	4.9	56.9	61.2	0.5	BB	(D)
2024	Ice cream and frozen desserts -----	E3	25	7	0.5	7.3	0.3	0.7	4.0	13.2	26.1	39.5	0.5	0.6	14.0
2026	Fluid milk -----	-	35	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	49.3
203	Preserved fruits and vegetables -----	-	95	43	7.7	94.1	6.0	11.6	67.4	330.9	473.9	803.7	18.5	10.0	190.9
2032	Canned specialties -----	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2033	Canned fruits and vegetables -----	E1	28	11	1.4	15.6	1.0	1.8	10.3	55.3	102.1	157.7	3.8	2.7	51.3
2034	Dehydrated fruits, vegetables, and soups -----	-	8	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2035	Pickles, sauces, and salad dressings -----	-	21	9	0.8	12.0	0.6	1.2	8.3	53.6	102.3	155.6	2.8	EE	(D)
2037	Frozen fruits and vegetables -----	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2038	Frozen specialties -----	E1	26	11	1.5	17.3	1.2	2.6	11.9	38.7	47.0	85.7	2.2	1.6	22.0
204	Grain mill products -----	-	32	13	0.9	11.0	0.6	1.3	7.3	57.3	100.1	155.4	1.1	1.0	16.5
2045	Blended and prepared flour --	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2047	Dog, cat, and other pet food --	E1	8	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	6.5
2048	Prepared feeds, n.e.c. -----	E1	16	4	0.3	3.8	0.2	0.4	2.5	14.4	41.9	56.3	0.4	0.7	7.4
205	Bakery products -----	-	154	55	9.3	123.8	6.4	12.5	76.8	368.4	289.3	656.6	20.9	11.8	280.2
2051	Bread, cake, and related products -----	-	140	47	5.6	73.2	3.3	6.5	39.9	205.9	158.1	363.9	15.8	6.9	141.1
2052	Cookies and crackers -----	-	14	8	3.8	50.6	3.0	6.0	36.9	162.5	131.2	292.7	5.1	4.9	139.1
206	Sugar and confectionery products -----	-	50	23	3.1	39.2	2.4	4.7	26.5	144.3	286.4	436.8	7.1	3.8	95.7
2065	Confectionery products -----	-	43	19	2.5	31.0	2.0	3.8	21.1	115.2	206.1	327.4	(D)	3.2	78.0
2067	Chewing gum -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
207	Fats and oils -----	-	22	15	1.5	23.3	1.1	2.2	15.0	125.6	262.4	388.4	9.9	2.2	73.4
2076	Vegetable oil mills, n.e.c. -----	-	3	3	0.3	4.7	0.2	0.5	3.2	10.2	41.4	54.7	(D)	AA	(D)
2077	Animal and marine fats and oils -----	-	12	6	0.4	8.4	0.3	0.6	3.9	43.1	63.7	103.4	(D)	BB	(D)
2079	Shortening and cooking oils --	-	7	6	0.7	10.2	0.6	1.2	7.8	72.4	157.2	230.2	6.6	EE	(D)
208	Beverages -----	-	106	56	7.4	120.4	4.8	8.9	69.8	401.6	581.9	983.8	(D)	9.2	313.0
2082	Malt beverages -----	-	8	6	3.1	55.3	2.5	4.3	40.4	138.4	211.5	350.1	3.5	4.1	128.3
2085	Distilled liquor, except brandy -----	-	7	7	0.7	10.4	0.5	1.0	7.0	34.2	63.5	98.7	(D)	0.7	18.4
2086	Bottled and canned soft drinks -----	-	49	24	2.2	34.3	1.0	2.1	12.2	142.8	199.0	341.3	7.3	2.8	95.1
2087	Flavoring extracts and sirups, n.e.c. -----	-	34	17	1.2	18.5	0.7	1.4	8.8	82.8	94.4	176.7	3.5	1.2	59.0
209	Miscellaneous foods and kindred products -----	-	120	49	6.3	89.9	4.4	9.0	56.6	366.8	1 181.7	1 558.5	17.0	7.6	360.9
2091	Canned and cured seafoods --	-	9	5	0.4	4.6	0.4	0.7	3.0	11.0	21.8	32.8	1.4	CC	(D)
2092	Fresh or frozen packaged fish -----	E1	19	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2095	Roasted coffee -----	-	13	8	2.7	45.5	1.9	4.2	30.2	214.9	977.8	1 204.7	5.8	3.6	268.9
2098	Macaroni and spaghetti -----	-	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2099	Food preparations, n.e.c. -----	-	59	21	1.6	23.3	1.1	2.3	13.7	87.7	133.0	218.8	7.0	2.0	58.9
22	Textile mill products --	E1	527	249	23.4	247.6	19.6	39.7	185.3	453.1	531.9	1 078.6	(D)	29.9	453.6
2211	Weaving mills, cotton -----	E2	16	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2221	Weaving mills, manmade fiber and silk -----	-	18	11	0.8	9.7	0.6	1.3	6.7	15.9	28.4	44.4	0.4	1.9	23.7
2241	Narrow fabric mills -----	E1	24	9	0.5	4.7	0.4	0.8	3.3	10.9	8.1	19.0	0.6	0.9	11.3
225	Knitting mills -----	E1	216	91	9.9	90.9	8.8	17.3	72.4	167.7	260.8	422.7	(D)	12.4	174.0
2253	Knit outerwear mills -----	E2	98	51	4.2	33.4	3.8	7.1	27.1	56.5	41.9	95.1	(D)	3.6	39.0
2257	Circular knit fabric mills -----	-	45	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.7	92.3
2258	Warp knit fabric mills -----	-	44	20	2.2	23.3	1.9	4.0	17.2	36.9	52.1	90.5	(D)	2.1	30.6
2259	Knitting mills, n.e.c. -----	E8	22	1	0.2	1.5	0.2	0.4	1.1	2.3	2.8	5.1	0.1	BB	(D)
226	Textile finishing, except wool --	E1	93	70	6.0	75.9	5.0	10.6	58.9	133.0	152.1	285.7	(D)	7.8	133.7
2261	Finishing plants, cotton -----	E3	20	14	1.0	11.8	0.8	1.8	9.3	22.7	13.2	35.8	(D)	1.3	15.1
2262	Finishing plants, synthetics -----	-	53	42	3.3	46.4	2.7	6.0	37.2	77.2	59.8	139.2	(D)	4.7	87.5
2269	Finishing plants, n.e.c. -----	-	20	14	1.7	17.6	1.4	2.9	12.4	33.2	79.1	110.7	(D)	1.8	31.1
227	Floor covering mills -----	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2272	Tufted carpets and rugs -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
228	Yarn and thread mills -----	E2	32	12	0.9	8.4	0.8	1.6	5.8	14.2	31.8	45.3	1.5	0.8	13.0
2281	Yarn mills, except wool -----	E4	10	3	0.3	2.5	0.3	0.5	1.8	4.2	12.2	16.1	0.5	(NA)	(NA)
2282	Throwing and winding mills --	E1	16	6	0.5	4.4	0.4	0.8	2.9	7.2	16.3	23.3	0.6	0.7	9.8

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
22	Textile mill products— Con.														
229	Miscellaneous textile goods ---	E2	117	47	4.3	48.5	3.3	6.6	31.9	93.6	115.7	208.3	(D)	5.0	85.3
2292	Lace goods ---	E2	16	5	0.3	2.3	0.3	0.5	1.8	3.8	1.9	5.7	0.1	BB	(D)
2295	Coated fabrics, not rubberized ---	E2	31	16	1.4	18.7	0.9	1.9	10.9	39.3	45.4	84.7	(D)	2.3	43.4
2297	Nonwoven fabrics ---	-	7	6	0.9	11.0	0.7	1.2	7.1	22.3	38.2	60.2	(D)	EE	(D)
2298	Cordage and twine ---	-	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	7.3
2299	Textile goods, n.e.c. ---	E8	46	13	1.0	8.4	0.8	1.8	6.4	13.7	13.1	26.1	(D)	0.3	3.9
23	Apparel and other textile products -----	E1	1 920	791	59.7	453.7	52.4	90.6	346.3	862.3	857.5	1 706.9	(D)	69.7	696.7
2311	Men's and boys' suits and coats ---	-	41	28	4.8	39.4	4.3	7.8	33.4	68.3	40.9	107.0	(D)	7.2	62.9
232	Men's and boys' furnishings ---	-	86	43	4.4	30.1	3.8	6.4	22.8	61.8	83.8	144.9	(D)	5.6	79.7
2321	Men's and boys' shirts and nightwear ---	E1	19	11	1.5	8.8	1.4	2.4	7.4	14.2	16.2	30.3	(D)	1.6	29.0
2323	Men's and boys' neckwear ---	E1	13	4	0.3	2.1	0.2	0.3	1.2	3.5	3.4	7.0	(D)	CC	(D)
2327	Men's and boys' separate trousers ---	E2	13	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	3.8
2328	Men's and boys' work clothing ---	E2	5	3	0.3	2.3	0.3	0.4	2.0	3.4	5.4	8.6	(D)	0.4	3.5
2329	Men's and boys' clothing, n.e.c. ---	-	35	20	1.9	14.7	1.5	2.8	10.4	36.9	57.3	93.7	(D)	2.3	36.4
233	Women's and misses' outerwear ---	E2	816	448	28.1	200.2	25.2	41.7	157.2	382.2	327.7	706.3	(D)	29.9	250.0
2331	Women's and misses' blouses and waists ---	-	79	50	3.0	22.1	2.7	4.2	15.8	46.8	58.9	104.1	(D)	3.0	31.7
2335	Women's and misses' dresses ---	E3	380	142	8.7	58.1	7.9	12.9	45.5	102.2	82.4	183.8	(D)	11.0	89.8
2337	Women's and misses' suits and coats ---	E2	260	199	12.4	88.6	11.2	18.4	72.5	157.8	103.8	261.2	(D)	12.3	90.6
2339	Women's and misses' outerwear, n.e.c. ---	E1	97	57	4.0	31.4	3.5	6.2	23.4	75.4	82.7	157.2	(D)	3.6	37.9
234	Women's and children's undergarments ---	-	51	27	3.5	26.4	2.6	4.6	15.0	56.3	84.6	140.4	(D)	4.6	58.6
2341	Women's and children's underwear ---	-	37	21	2.0	12.7	1.8	3.1	9.8	30.8	21.4	53.2	(D)	2.3	23.9
2342	Brassieres and allied garments ---	-	14	8	1.4	13.7	0.9	1.5	5.2	25.5	63.3	87.2	(D)	2.3	34.7
235	Hats, caps, and millinery -----	E8	15	8	0.5	3.3	0.4	0.7	2.4	3.5	5.9	9.4	(D)	0.5	4.8
2351	Millinery ---	E2	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.7
2352	Hats and caps, except millinery ---	-	12	6	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	2.2
236	Children's outerwear ---	E1	111	71	4.6	32.4	4.0	6.9	24.9	56.0	61.3	119.0	(D)	6.2	57.5
2361	Children's dresses and blouses ---	E1	56	41	2.3	16.9	2.1	3.4	12.6	32.8	39.8	71.8	(D)	2.8	31.0
2363	Children's coats and suits ---	E1	27	13	0.9	6.2	0.8	1.4	5.1	11.1	9.9	21.1	(D)	1.8	13.8
2369	Children's outerwear, n.e.c. ---	E2	28	17	1.4	9.3	1.2	2.2	7.3	12.1	11.6	26.1	(D)	1.5	12.7
238	Miscellaneous apparel and accessories ---	-	71	44	3.3	23.4	3.0	5.3	18.1	39.2	33.0	71.6	(D)	4.3	40.9
2381	Fabric dress and work gloves ---	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2384	Robes and dressing gowns ---	E1	10	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	5.7
2385	Waterproof outer garments ---	E1	18	14	1.0	7.4	1.0	1.7	6.0	13.9	6.4	20.1	(D)	1.3	12.3
2386	Leather and sheep lined clothing ---	-	15	10	1.0	7.1	0.9	1.6	5.5	11.3	11.9	23.3	(D)	0.8	8.1
2387	Apparel belts ---	-	6	4	0.3	1.8	0.2	0.4	1.2	3.0	4.2	7.2	(D)	0.4	3.7
2389	Apparel and accessories, n.e.c. ---	E1	18	8	0.5	3.1	0.4	0.7	2.2	4.5	4.6	9.0	(D)	CC	(D)
239	Miscellaneous fabricated textile products ---	E1	722	122	10.6	98.0	9.1	17.2	72.2	194.2	217.8	405.0	(D)	11.3	138.3
2391	Curtains and draperies ---	E2	39	5	0.8	5.4	0.7	1.3	4.4	9.3	7.3	16.5	0.1	1.0	7.4
2392	House furnishings, n.e.c. ---	-	62	31	3.1	25.2	2.7	5.1	18.7	58.6	89.1	141.7	(D)	2.6	34.4
2393	Textile bags ---	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	1.1
2394	Canvas and related products ---	E3	45	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.1
2395	Plaiting and stitching ---	E3	148	16	1.4	11.7	1.2	2.2	8.7	22.7	21.8	44.3	(D)	1.7	16.3
2396	Automotive and apparel trimmings ---	E2	45	11	0.7	8.7	0.6	1.1	6.4	18.9	22.4	41.1	(D)	0.8	11.2
2397	Schiffli machine embroideries ---	E1	304	31	2.8	31.7	2.4	4.9	23.9	54.0	42.3	96.4	(D)	3.1	50.1
2399	Fabricated textile products, n.e.c. ---	E1	75	25	1.4	11.9	1.1	2.2	7.9	24.9	25.8	50.3	(D)	1.7	15.6
24	Lumber and wood products -----	E1	357	72	5.6	60.9	4.6	8.8	39.1	119.6	151.7	268.5	(D)	6.2	82.8
242	Sawmills and planing mills ---	E2	29	3	0.2	2.0	0.2	0.4	1.6	3.7	6.5	10.2	0.4	0.4	4.4
2421	Sawmills and planing mills, general ---	E2	22	1	0.2	1.3	0.2	0.3	1.2	2.3	5.5	7.8	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members ---	-	157	36	2.9	34.6	2.3	4.7	22.3	71.0	87.3	156.0	(D)	3.3	47.2
2431	Millwork ---	-	71	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	25.5
2434	Wood kitchen cabinets ---	-	77	13	1.4	15.3	1.2	2.4	10.2	28.6	24.6	52.9	(D)	1.3	15.6

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972		
			E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
				Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
24	Lumber and wood products—Con.															
244	Wood containers -----	E3	49	9	0.5	4.8	0.5	0.8	3.5	9.2	9.2	18.4	(D)	0.7	9.0	
2448	Wood pallets and skids -----	E4	24	5	0.3	2.4	0.2	0.4	1.7	4.4	5.5	9.9	(D)	0.4	4.6	
249	Miscellaneous wood products -----	E1	92	20	1.7	17.3	1.4	2.6	10.1	30.6	41.2	71.6	(D)	1.5	18.7	
2499	Wood products, n.e.c. -----	E1	85	18	1.6	16.4	1.3	2.5	9.7	26.8	37.6	64.3	(D)	EE	(D)	
25	Furniture and fixtures -	E1	324	104	9.6	100.9	7.5	15.2	69.3	196.4	191.4	382.5	(D)	10.8	151.8	
251	Household furniture -----	E1	160	38	3.8	34.9	3.0	5.7	23.7	73.9	85.6	157.6	(D)	4.9	72.7	
2511	Wood household furniture -----	E2	81	12	0.8	6.9	0.7	1.2	5.0	15.9	17.6	33.5	(D)	1.2	16.8	
2512	Upholstered household furniture -----	E3	21	4	0.3	2.3	0.2	0.4	1.6	3.8	4.5	8.4	(D)	0.2	2.9	
2514	Metal household furniture -----	-	18	7	1.0	7.3	0.8	1.4	4.8	16.5	19.6	36.0	(D)	0.9	9.7	
2515	Mattresses and bedsprings -----	E1	32	14	1.7	17.9	1.3	2.5	11.9	36.4	42.5	77.1	(D)	2.2	39.7	
252	Office furniture -----	-	13	7	1.4	11.6	1.2	2.1	8.0	26.3	27.5	52.8	(D)	1.5	22.5	
2522	Metal office furniture -----	-	8	6	1.4	11.1	1.1	2.0	7.7	25.3	26.6	50.8	(D)	EE	(D)	
2531	Public building and related furniture -----	-	9	5	0.2	2.8	0.2	0.3	1.8	4.8	4.4	9.2	(D)	BB	(D)	
254	Partitions and fixtures -----	E1	89	38	2.4	25.6	1.8	3.3	17.4	50.7	39.8	89.1	(D)	2.9	36.8	
2541	Wood partitions and fixtures -----	E1	56	18	1.1	12.3	0.8	1.6	8.4	21.4	15.9	37.1	(D)	EE	(D)	
2542	Metal partitions and fixtures -----	-	33	20	1.3	13.3	1.0	1.7	9.0	29.3	23.9	51.9	(D)	EE	(D)	
259	Miscellaneous furniture and fixtures -----	-	53	16	1.8	25.9	1.4	3.7	18.4	40.6	34.2	73.8	(D)	EE	(D)	
2591	Drapery hardware and blinds and shades -----	-	24	4	0.9	15.2	0.8	2.5	12.0	20.6	21.4	41.1	(D)	0.5	6.8	
2599	Furniture and fixtures, n.e.c. -----	-	29	12	0.9	10.7	0.6	1.2	6.5	20.0	12.8	32.7	(D)	CC	(D)	
26	Paper and allied products -----	-	422	256	29.4	406.5	21.7	44.2	259.2	842.2	1 161.6	1 984.7	83.9	31.6	554.3	
2621	Paper mills, except building paper -----	-	12	8	2.1	37.2	1.5	3.4	25.1	71.7	126.7	199.6	6.7	2.5	57.7	
2631	Paperboard mills -----	-	17	13	1.4	21.5	1.1	2.5	15.1	38.0	70.2	109.1	(D)	EE	(D)	
264	Miscellaneous converted paper products -----	-	199	104	12.4	171.6	8.6	17.7	101.2	401.8	516.7	894.9	47.2	11.3	202.5	
2641	Paper coating and glazing -----	-	40	23	2.6	39.1	1.6	3.3	20.9	76.1	103.4	179.3	2.7	2.8	54.3	
2642	Envelopes -----	-	10	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
2643	Bags, except textile bags -----	-	38	24	2.0	24.9	1.6	3.2	17.6	76.8	112.9	189.1	6.5	2.3	35.3	
2645	Die-cut paper and board -----	-	31	12	1.5	21.7	1.1	2.4	13.7	53.9	79.6	132.3	(D)	EE	(D)	
2647	Sanitary paper products -----	-	8	6	2.6	40.4	1.4	2.9	17.3	97.4	99.9	180.4	(D)	EE	(D)	
2648	Stationery products -----	-	12	6	0.6	6.2	0.5	0.9	4.6	16.2	14.3	30.2	0.2	0.9	14.8	
2649	Converted paper products, n.e.c. -----	-	59	28	2.2	26.8	1.7	3.5	18.4	58.9	87.5	141.8	3.3	0.9	18.6	
265	Paperboard containers and boxes -----	-	190	127	12.7	165.0	9.8	19.4	109.2	309.6	421.8	734.0	23.7	14.7	242.8	
2651	Folding paperboard boxes -----	-	40	27	2.9	36.0	2.3	4.5	25.3	66.3	63.7	132.3	4.9	2.8	46.6	
2652	Setup paperboard boxes -----	-	18	14	0.8	8.1	0.7	1.3	5.9	13.3	10.0	23.2	0.3	1.1	14.9	
2653	Corrugated and solid fiber boxes -----	-	93	57	5.9	86.6	4.3	8.6	52.7	154.3	231.5	385.4	14.1	7.3	119.2	
2654	Sanitary food containers -----	-	9	6	1.6	17.3	1.2	2.4	12.3	43.7	71.6	116.2	2.3	2.0	36.5	
2655	Fiber cans, drums, and similar products -----	-	30	23	1.5	16.9	1.2	2.5	13.0	31.9	45.1	76.8	2.0	1.6	25.7	
2661	Building paper and board mills -----	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
27	Printing and publishing -----	E1	2 006	394	45.4	556.5	24.6	45.4	282.3	1 166.0	613.0	1 769.9	57.8	42.0	754.3	
2711	Newspapers -----	-	221	61	11.8	131.1	3.6	6.0	44.0	293.7	108.6	402.2	13.4	11.2	215.3	
2721	Periodicals -----	E1	111	17	1.2	14.6	0.3	0.6	2.7	39.7	26.8	66.4	1.6	EE	(D)	
273	Books -----	E1	138	38	4.4	55.1	2.0	3.8	22.9	135.5	84.6	220.9	(D)	3.2	77.9	
2731	Book publishing -----	-	84	18	2.5	31.2	0.6	1.1	5.9	89.5	50.9	141.8	(D)	2.3	65.5	
2732	Book printing -----	E2	54	20	1.8	23.9	1.4	2.7	16.9	45.9	33.7	79.1	3.3	0.9	12.4	
2741	Miscellaneous publishing -----	E1	90	14	4.7	54.8	0.7	1.4	10.1	101.9	29.5	130.7	7.3	3.8	66.4	
275	Commercial printing -----	E1	1 124	167	13.6	179.2	10.6	19.7	121.9	341.0	246.7	585.6	20.8	13.2	228.6	
2751	Commercial printing, letterpress -----	E2	645	69	6.4	70.9	5.2	9.5	49.5	140.3	91.6	231.0	8.5	5.9	92.7	
2752	Commercial printing, lithographic -----	E1	433	85	6.6	99.1	4.9	9.2	65.8	184.0	148.6	331.4	11.4	5.7	105.3	
2753	Engraving and plate printing -----	E2	27	7	0.3	4.0	0.2	0.4	2.6	8.2	3.0	11.3	0.3	0.6	8.5	
2754	Commercial printing, gravure -----	-	19	8	0.4	5.2	0.3	0.6	4.0	8.4	3.5	12.0	0.6	1.0	22.1	
2761	Manifold business forms -----	E1	33	16	1.0	13.6	0.7	1.3	7.7	27.0	25.3	52.2	(D)	CC	(D)	
278	Blankbooks and bookbinding -----	-	99	49	5.8	63.3	4.6	8.8	44.8	140.0	57.0	191.9	5.5	5.3	64.0	
2782	Blankbooks and looseleaf binders -----	-	28	19	3.1	34.1	2.2	4.6	22.6	95.1	44.1	133.8	2.6	2.6	33.3	
2789	Bookbinding and related work -----	-	71	30	2.7	29.1	2.4	4.2	22.3	44.9	12.9	58.0	2.9	2.7	30.6	
279	Printing trade services -----	E1	185	31	2.9	43.8	2.0	3.8	27.7	85.1	33.2	116.8	3.2	2.2	41.4	
2791	Typesetting -----	E3	122	16	1.3	15.4	1.0	1.8	11.4	26.6	5.6	31.9	2.0	1.0	15.4	
2793	Photoengraving -----	E1	35	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	9.8	
2795	Lithographic platemaking services -----	-	27	11	1.3	23.8	0.8	1.6	13.3	49.0	25.1	72.9	1.0	CC	(D)	

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			E1	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
28	Chemicals and allied products -----	-	986	490	95.6	1 586.7	56.4	114.1	778.0	6 189.0	5 157.3	11 298.5	438.0	97.6	4 009.6
281	Industrial inorganic chemicals --	-	78	39	4.4	69.6	2.8	5.9	40.3	253.7	396.3	637.4	22.6	6.4	207.1
2812	Alkalies and chlorine -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2813	Industrial gases -----	E2	23	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2816	Inorganic pigments -----	-	18	10	1.1	13.9	0.8	1.5	8.9	44.1	50.2	89.1	2.2	2.1	64.2
2819	Industrial inorganic chemicals, n.e.c. -----	-	35	24	2.9	47.4	1.7	3.8	26.6	174.4	312.5	479.6	18.2	3.5	111.4
282	Plastics materials and synthetics -----	-	47	39	5.7	95.8	3.4	7.5	54.1	356.9	584.9	949.4	33.7	5.4	162.0
2821	Plastics materials and resins -	-	45	39	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.3	160.5
283	Drugs -----	-	132	77	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2831	Biological products -----	-	18	13	2.6	40.4	1.1	2.4	14.1	99.4	46.1	142.1	6.6	0.5	14.1
2833	Medicinals and botanicals -----	-	32	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2834	Pharmaceutical preparations -	-	82	43	23.4	420.4	11.6	23.4	155.2	1 989.0	580.7	2 549.3	93.9	25.1	1 402.7
284	Soaps, cleaners, and toilet goods -----	-	223	98	22.2	328.8	13.2	26.1	155.5	1 471.3	999.7	2 464.9	51.2	20.7	1 006.2
2841	Soap and other detergents --	-	51	24	4.0	69.1	2.8	5.5	43.3	356.8	290.3	649.3	13.8	3.5	263.0
2842	Polishes and sanitation goods -----	-	59	18	2.0	28.7	1.2	2.5	15.5	195.8	155.9	352.7	6.4	2.0	115.4
2843	Surface active agents -----	-	32	16	1.0	16.5	0.5	1.1	7.0	44.9	102.9	147.1	4.2	1.4	40.7
2844	Toilet preparations -----	-	81	40	15.1	214.6	8.7	17.0	89.7	873.8	450.6	1 315.9	26.9	13.8	587.0
2851	Paints and allied products -----	-	146	64	5.5	81.7	3.3	6.4	39.5	277.9	329.2	602.4	10.8	6.4	189.9
286	Industrial organic chemicals ---	-	118	75	20.1	376.3	13.7	27.6	225.8	1 118.6	1 618.6	2 727.1	160.3	21.4	684.3
2865	Cyclic crudes and intermediates -----	-	42	30	12.3	237.7	8.6	16.7	141.8	605.6	805.5	1 402.9	(D)	8.3	234.0
2869	Industrial organic chemicals, n.e.c. -----	-	73	45	7.7	138.1	5.1	10.8	83.6	512.3	810.8	1 320.7	59.8	13.1	448.2
287	Agricultural chemicals -----	-	31	16	1.0	10.8	0.8	1.6	6.5	61.4	102.0	163.5	1.6	1.4	64.2
2875	Fertilizers, mixing only -----	-	13	5	0.2	2.2	0.2	0.3	1.2	4.7	16.8	21.1	0.4	0.2	2.9
2879	Agricultural chemicals, n.e.c. -	-	18	11	0.8	8.5	0.6	1.3	5.3	56.7	85.1	142.4	1.2	EE	(D)
289	Miscellaneous chemical products -----	-	211	82	7.4	102.9	4.4	8.8	54.1	302.5	344.6	640.8	28.1	7.4	198.2
2891	Adhesives and sealants -----	-	45	20	1.4	19.9	0.9	1.9	10.8	69.3	89.9	158.7	2.9	1.1	25.9
2892	Explosives -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2893	Printing ink -----	-	42	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2899	Chemical preparations, n.e.c. -----	-	122	38	3.8	49.4	2.1	4.3	24.7	143.9	165.8	304.7	21.7	3.9	116.4
29	Petroleum and coal products -----	-	87	36	6.7	125.9	4.6	9.8	83.3	209.5	3 930.3	4 126.4	62.8	FF	(D)
2911	Petroleum refining -----	-	8	6	4.0	84.9	2.8	5.6	55.6	101.2	3 693.8	3 782.8	51.6	FF	(D)
295	Paving and roofing materials ---	-	51	20	1.9	28.2	1.4	3.3	20.8	64.2	151.3	215.4	8.9	EE	(D)
2951	Paving mixtures and blocks ---	-	37	7	0.4	6.1	0.3	0.6	3.9	17.8	33.3	51.2	2.9	CC	(D)
2952	Asphalt felts and coatings ---	-	14	13	1.4	22.1	1.1	2.7	16.8	46.4	118.0	164.2	6.0	EE	(D)
299	Miscellaneous petroleum and coal products -----	-	28	10	0.7	12.8	0.4	0.9	6.9	44.1	85.3	128.3	2.3	0.6	31.5
2992	Lubricating oils and greases -	-	25	9	0.7	12.4	0.4	0.9	6.7	43.3	83.7	125.8	(D)	0.6	31.5
30	Rubber and miscellaneous plastics products ----	E1	751	380	38.7	441.7	30.1	61.1	291.5	991.0	1 046.2	2 021.5	72.4	35.6	616.2
3021	Rubber and plastics footwear --	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3041	Rubber and plastics hose and belting -----	-	18	14	2.5	35.2	1.7	3.4	21.0	64.0	71.9	135.2	2.6	FF	(D)
3069	Fabricated rubber products, n.e.c. -----	-	69	35	4.6	52.3	3.6	7.1	34.1	113.8	98.5	210.8	4.7	4.5	62.2
3079	Miscellaneous plastics products -----	E1	655	326	30.8	345.8	24.2	49.4	230.8	795.0	863.4	1 645.2	64.0	26.8	459.2
31	Leather and leather products -----	-	107	53	7.9	65.1	6.9	12.5	47.6	120.0	155.6	272.5	3.7	9.1	105.3
3111	Leather tanning and finishing --	-	31	7	1.0	13.4	0.8	1.6	9.5	21.2	50.2	71.2	(D)	2.0	31.0
314	Footwear, except rubber -----	-	11	9	1.4	11.3	1.2	2.2	8.4	18.0	17.3	35.2	(D)	1.2	13.5
3142	House slippers -----	-	6	5	0.9	8.1	0.8	1.5	5.8	12.1	11.8	23.9	(D)	CC	(D)
3143	Men's footwear, except athletic -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3149	Footwear, except rubber, n.e.c. -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3161	Luggage -----	-	20	13	1.7	13.7	1.5	2.8	9.9	23.5	28.9	51.1	(D)	1.4	11.5
317	Handbags and other personal leather goods -----	E1	34	20	3.6	24.3	3.2	5.6	18.4	50.1	37.6	87.5	(D)	4.3	46.5
3171	Women's handbags and purses -----	E1	21	12	2.9	19.1	2.7	4.5	15.2	33.1	27.8	61.0	(D)	FF	(D)
3172	Personal leather goods -----	-	13	8	0.7	5.2	0.6	1.0	3.2	17.0	9.9	26.5	(D)	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
32	Stone, clay, and glass products -----	-	571	209	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	37.0	598.4
3211	Flat glass -----	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
322	Glass and glassware, pressed or blown -----	-	45	24	13.1	179.9	11.2	21.9	146.6	380.7	267.6	651.1	27.8	15.2	265.9
3221	Glass containers -----	-	15	14	11.0	150.8	9.5	18.5	124.5	319.7	234.6	560.1	23.6	FF	(D)
3229	Pressed and blown glass, n.e.c. -----	-	30	10	2.2	29.1	1.7	3.4	22.1	61.0	32.9	91.0	4.2	EE	(D)
3231	Products of purchased glass ---	-	90	37	2.9	31.7	2.4	4.7	23.5	66.5	48.5	115.3	3.7	2.8	47.4
325	Structural clay products -----	E1	13	3	0.5	5.4	0.4	0.8	4.2	10.2	8.6	19.0	0.5	CC	(D)
3253	Ceramic wall and floor tile ---	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
326	Pottery and related products ---	-	54	27	3.6	39.1	2.9	5.5	29.1	90.9	28.3	118.7	2.7	3.9	60.7
3261	Vitreous plumbing fixtures -----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	14.2
3262	Vitreous china food utensils -----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3264	Porcelain electrical supplies -----	-	15	9	0.8	9.0	0.6	1.3	6.0	17.3	6.2	23.3	0.4	1.3	15.9
3269	Pottery products, n.e.c. -----	E1	32	12	0.9	9.4	0.8	1.5	6.6	18.7	5.6	23.9	1.3	CC	(D)
327	Concrete, gypsum, and plaster products -----	E1	224	61	3.8	51.9	2.6	5.4	33.1	105.1	131.5	235.6	11.7	5.9	128.9
3271	Concrete block and brick ---	E1	46	11	0.6	7.9	0.4	0.8	4.0	18.4	25.2	43.7	1.8	1.0	21.3
3272	Concrete products, n.e.c. ---	E2	91	27	1.5	18.2	1.2	2.4	13.0	35.7	28.9	62.9	6.2	2.8	52.2
3273	Ready-mixed concrete -----	E1	80	20	1.5	21.2	0.9	1.8	13.1	42.5	58.3	100.3	2.1	1.7	43.4
3275	Gypsum products -----	-	7	3	0.3	4.5	0.2	0.4	3.0	8.6	19.1	28.6	1.5	BB	(D)
329	Miscellaneous nonmetallic mineral products -----	-	119	55	7.6	106.3	5.8	12.5	74.7	271.3	248.8	516.3	(D)	8.3	180.6
3291	Abrasive products -----	E1	26	10	0.6	8.1	0.5	0.9	4.9	16.6	14.7	30.9	0.3	0.5	7.7
3292	Asbestos products -----	-	10	9	1.1	17.2	0.9	2.0	13.6	30.3	42.2	72.6	1.8	2.1	40.4
3293	Gaskets, packing, and sealing devices -----	-	20	9	1.1	14.0	0.8	1.5	9.8	35.2	18.1	51.8	1.4	1.9	38.1
3295	Minerals, ground or treated ---	E1	21	9	0.6	8.7	0.4	0.9	5.9	18.1	36.1	54.0	4.7	0.6	13.9
3296	Mineral wool -----	-	11	8	2.6	36.2	2.1	5.2	28.1	122.9	92.7	216.2	9.9	1.9	54.9
3297	Nonclay refractories -----	-	4	3	0.5	7.5	0.3	0.6	4.5	21.0	22.5	43.7	(D)	0.7	13.0
3299	Nonmetallic mineral products, n.e.c. -----	-	27	7	1.1	14.6	0.8	1.3	7.9	27.3	22.6	47.1	1.1	0.5	12.5
33	Primary metal industries -----	-	314	159	21.7	303.7	16.4	33.3	206.7	708.7	1 384.8	2 088.5	37.2	30.7	582.5
331	Blast furnace and basic steel products -----	-	49	26	3.1	49.0	2.3	4.5	32.3	95.7	187.9	277.6	6.9	4.4	91.0
3312	Blast furnaces and steel mills -----	E3	15	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3313	Electrometallurgical products -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3315	Steel wire and related products -----	E1	17	7	0.7	10.5	0.5	1.0	6.8	16.9	21.5	36.7	0.5	1.1	25.9
3316	Cold finishing of steel shapes -----	-	5	4	0.5	8.2	0.3	0.7	5.7	16.8	30.8	47.7	(D)	CC	(D)
3317	Steel pipe and tubes -----	-	9	8	1.3	19.2	1.0	1.9	12.6	38.7	77.2	113.4	1.4	CC	(D)
332	Iron and steel foundries -----	-	33	18	3.4	45.6	2.7	5.4	32.9	100.2	86.1	186.2	3.1	4.6	77.9
3321	Gray iron foundries -----	-	22	13	2.4	31.9	1.9	3.8	24.2	73.9	70.6	144.4	2.3	3.5	54.7
3324	Steel investment foundries ---	-	4	3	0.8	10.5	0.6	1.2	6.6	22.0	11.9	33.9	(D)	CC	(D)
3325	Steel foundries, n.e.c. -----	E1	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BE	(D)
333	Primary nonferrous metals -----	-	8	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2	70.0
3331	Primary copper -----	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3341	Secondary nonferrous metals ---	E1	25	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	27.0
335	Nonferrous rolling and drawing -----	-	70	50	9.0	120.9	6.7	14.0	80.7	303.7	718.6	1 019.8	12.4	11.7	244.3
3351	Copper rolling and drawing -----	-	11	8	1.8	25.2	1.4	3.1	18.5	57.9	233.3	290.8	1.2	2.8	53.8
3353	Aluminum sheet, plate, and foil -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3354	Aluminum extruded products -----	-	9	8	1.5	17.7	1.3	2.5	12.1	29.9	47.2	76.4	2.7	EE	(D)
3356	Nonferrous rolling and drawing, n.e.c. -----	-	17	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	35.4
3357	Nonferrous wire drawing and insulating -----	-	30	23	4.2	55.9	3.1	6.4	38.7	146.9	264.4	414.0	6.1	5.8	137.0
336	Nonferrous foundries -----	E1	66	25	1.9	23.1	1.6	3.2	17.0	42.8	39.5	81.3	3.6	2.4	33.6
3361	Aluminum foundries -----	E3	27	10	0.8	9.2	0.7	1.3	7.1	16.4	12.7	29.0	0.9	1.0	12.5
3362	Brass, bronze, and copper foundries -----	-	18	4	0.4	5.0	0.3	0.6	3.4	10.7	10.3	20.4	1.5	0.6	10.1
3369	Nonferrous foundries, n.e.c. ---	-	21	11	0.8	8.8	0.7	1.3	6.5	15.7	16.4	31.9	1.2	0.8	11.0
339	Miscellaneous primary metal products -----	-	63	25	2.0	27.4	1.4	2.8	17.1	72.6	92.7	163.8	4.1	2.0	38.7
3398	Metal heat treating -----	E1	32	12	0.6	8.2	0.5	1.0	5.6	14.4	5.7	20.1	0.9	0.9	14.4
3399	Primary metal products, n.e.c. -----	-	31	13	1.3	19.3	0.9	1.8	11.4	58.2	87.0	143.7	3.2	1.0	24.3

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
34	Fabricated metal products -----	-	1 555	532	57.9	803.3	42.9	85.8	521.1	1 710.0	1 588.2	3 280.2	83.4	59.4	1 138.9
341	Metal cans and shipping containers -----	-	45	38	6.3	107.6	5.1	10.4	82.8	284.8	373.6	658.8	9.1	8.5	198.6
3411	Metal cans -----	-	28	24	4.2	78.8	3.5	7.3	63.4	223.9	288.1	513.2	6.8	7.0	172.6
3412	Metal barrels, drums, and pails -----	-	17	14	2.0	28.8	1.5	3.1	19.3	60.9	85.5	145.5	2.3	1.4	26.0
342	Cutlery, hand tools, and hardware -----	-	82	35	9.3	136.2	7.7	15.5	105.1	308.5	171.0	473.8	16.8	8.6	179.4
3421	Cutlery -----	-	11	7	1.8	20.1	1.4	2.9	14.4	40.9	32.5	71.0	3.0	2.1	34.4
3423	Hand and edge tools, n.e.c. -----	-	32	16	2.1	24.0	1.7	3.4	16.6	65.3	31.3	96.0	(D)	1.6	30.5
3429	Hardware, n.e.c. -----	-	36	11	5.4	91.8	4.6	9.2	73.9	201.9	106.8	306.0	(D)	4.9	114.1
343	Plumbing and heating, except electric -----	-	35	11	1.9	19.8	1.3	2.5	11.0	43.8	39.6	83.3	1.6	1.7	32.8
3432	Plumbing fittings and brass goods -----	-	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3433	Heating equipment, except electric -----	E1	24	8	0.9	10.2	0.6	1.2	6.0	21.8	20.7	42.5	(D)	1.0	20.1
344	Fabricated structural metal products -----	E1	513	148	12.6	174.1	8.6	16.9	98.6	325.9	387.0	708.7	18.3	13.0	237.6
3441	Fabricated structural metal -----	E1	92	29	2.0	27.4	1.3	2.6	15.9	48.0	57.7	105.0	3.0	3.0	56.6
3442	Metal doors, sash, and trim -----	E1	70	24	1.7	17.1	1.3	2.5	10.8	35.3	41.5	76.5	1.4	EE	(D)
3443	Fabricated plate work (boiler shops) -----	-	88	36	4.3	71.6	2.6	5.3	33.5	130.4	119.0	247.3	6.8	2.5	49.7
3444	Sheet metal work -----	E1	171	39	3.1	40.2	2.3	4.5	27.0	74.9	115.0	189.7	3.6	3.9	71.8
3446	Architectural metal work -----	E1	66	7	0.6	6.8	0.4	0.7	3.9	15.0	11.0	25.8	(D)	0.7	10.7
3448	Prefabricated metal buildings -----	E1	11	8	0.7	8.2	0.5	1.0	5.7	17.8	27.9	44.7	2.9	BB	(D)
3449	Miscellaneous metal work -----	E3	15	5	0.3	2.9	0.2	0.3	2.0	4.4	14.8	19.7	(D)	0.6	12.7
345	Screw machine products, bolts, etc. -----	-	134	45	4.0	57.5	2.9	5.9	36.6	109.7	72.0	179.0	4.6	4.6	87.2
3451	Screw machine products -----	E1	104	27	1.8	22.1	1.5	3.1	16.4	38.0	21.7	59.3	2.1	1.8	27.0
3452	Bolts, nuts, rivets, and washers -----	-	30	18	2.3	35.3	1.4	2.9	20.2	71.7	50.3	119.7	2.5	2.8	60.2
346	Metal forgings and stampings -----	E1	187	76	6.9	86.3	5.4	10.9	60.4	162.0	158.0	318.0	9.9	6.7	107.7
3462	Iron and steel forgings -----	E1	11	3	0.4	5.1	0.3	0.6	3.4	8.5	9.2	17.8	0.5	0.3	5.0
3466	Crowns and closures -----	-	5	4	0.8	10.9	0.6	1.2	8.3	23.1	26.4	49.5	(D)	0.9	19.0
3469	Metal stampings, n.e.c. -----	E1	166	69	5.7	69.5	4.5	9.0	48.1	128.9	120.9	247.8	8.6	5.3	78.2
347	Metal services, n.e.c. -----	-	230	54	3.2	37.1	2.4	4.9	23.4	72.3	72.1	142.3	2.8	3.1	46.8
3471	Plating and polishing -----	E1	154	32	1.9	20.9	1.5	3.0	13.7	42.7	52.7	93.4	2.0	1.8	26.6
3479	Metal coating and allied services -----	-	76	22	1.4	16.2	0.9	1.9	9.8	29.5	19.4	48.8	0.8	1.3	20.2
348	Ordnance and accessories, n.e.c. -----	-	10	4	0.3	3.3	0.2	0.4	1.8	6.5	5.6	11.8	0.2	0.8	8.5
3483	Ammunition, except for small arms, n.e.c. -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
349	Miscellaneous fabricated metal products -----	-	319	121	13.4	181.3	9.2	18.3	101.5	396.5	309.4	704.5	20.2	12.3	240.5
3494	Valves and pipe fittings -----	-	45	29	4.8	71.2	2.9	5.6	35.4	171.6	88.8	259.4	5.4	4.7	111.8
3495	Wire springs -----	-	10	5	0.3	3.6	0.3	0.6	2.9	7.0	5.0	11.9	0.3	0.3	4.3
3496	Miscellaneous fabricated wire products -----	E1	73	24	2.0	23.3	1.5	3.1	13.7	51.2	45.0	95.1	4.6	1.7	24.2
3497	Metal foil and leaf -----	-	13	8	1.1	17.1	0.8	1.6	10.2	42.7	50.7	92.5	4.2	0.9	23.9
3498	Fabricated pipe and fittings -----	-	23	14	1.8	24.6	1.2	2.1	12.5	45.9	42.8	89.1	2.0	EE	(D)
3499	Fabricated metal products, n.e.c. -----	E1	151	40	3.4	40.7	2.5	5.2	26.3	76.7	75.6	153.5	3.7	3.1	48.0
35	Machinery, except electrical -----	-	2 173	506	63.5	897.9	41.4	82.9	515.2	1 750.6	1 473.1	3 230.5	85.1	62.3	1 298.6
351	Engines and turbines -----	-	17	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3511	Turbines and turbine generator sets -----	-	7	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
352	Farm and garden machinery -----	E3	15	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3523	Farm machinery and equipment -----	E2	14	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
353	Construction and related machinery -----	-	85	34	4.5	66.2	2.5	4.8	29.1	155.2	108.7	259.3	3.6	5.3	147.0
3531	Construction machinery -----	-	17	5	0.6	8.3	0.3	0.7	4.1	13.6	21.8	35.5	0.8	0.5	14.1
3532	Mining machinery -----	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3534	Elevators and moving stairways -----	-	9	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3535	Conveyors and conveying equipment -----	-	33	16	1.4	20.0	0.8	1.6	8.7	58.4	40.0	93.8	0.9	1.2	28.6
3537	Industrial trucks and tractors -----	E2	14	4	0.2	3.2	0.1	0.3	1.9	6.4	8.1	14.5	0.3	(NA)	(NA)
354	Metalworking machinery -----	E1	538	104	8.1	116.1	6.1	12.2	78.3	200.7	117.2	314.4	11.6	7.2	124.0
3541	Machine tools, metal cutting types -----	E2	31	8	0.4	5.6	0.2	0.5	3.0	10.0	5.8	15.4	0.2	0.4	7.3
3542	Machine tools, metal forming types -----	E3	24	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	6.0
3544	Special dies, tools, jigs, and fixtures -----	E2	389	59	4.4	64.7	3.6	7.4	47.7	109.0	46.3	154.0	6.7	4.5	75.5
3545	Machine tool accessories -----	-	54	15	1.4	19.5	0.9	1.8	11.7	37.1	26.7	62.6	2.5	CC	(D)
3549	Metalworking machinery, n.e.c. -----	-	38	17	1.5	19.2	1.0	1.9	11.7	35.1	30.0	64.6	1.8	1.1	19.2

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
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[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977										1972			
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
35	Machinery, except electrical—Con.														
355	Special industry machinery ----	-	308	104	11.1	163.5	6.3	13.0	82.4	324.0	250.6	569.2	10.9	11.8	219.7
3551	Food products machinery ----	-	35	11	0.8	10.4	0.4	0.8	4.5	23.1	16.3	39.1	0.6	CC	(D)
3552	Textile machinery ----	E1	50	11	0.7	8.8	0.5	0.9	5.2	14.9	11.3	25.9	0.4	0.9	16.8
3554	Paper industries machinery ----	-	18	9	1.9	29.0	1.0	2.0	14.6	46.0	38.9	88.8	1.6	1.4	26.3
3555	Printing trades machinery ----	-	61	24	2.8	40.0	1.5	3.1	19.8	105.5	82.6	177.9	3.6	3.0	67.0
3559	Special industry machinery, n.e.c. ----	-	140	47	4.9	74.1	2.8	5.8	37.5	131.9	100.6	233.9	4.6	5.5	93.7
356	General industrial machinery ----	-	269	103	14.4	228.4	9.5	19.4	138.5	451.3	382.1	838.2	21.4	13.4	309.5
3561	Pumps and pumping equipment ----	-	27	10	3.0	46.6	1.7	3.4	23.5	110.9	90.3	210.4	3.7	2.8	63.0
3562	Ball and roller bearings ----	-	6	5	2.9	58.5	2.6	5.4	50.4	90.9	66.1	154.4	2.4	FF	(D)
3563	Air and gas compressors ----	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3564	Blowers and fans ----	E3	25	11	1.2	14.6	0.6	1.1	6.2	37.3	45.0	77.2	2.3	1.7	66.2
3565	Industrial patterns ----	-	35	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.4
3566	Speed changers, drives, and gears ----	-	15	8	1.0	15.8	0.8	1.5	10.5	29.6	16.7	45.6	1.3	0.8	12.4
3567	Industrial furnaces and ovens ----	-	26	11	1.1	18.7	0.6	1.2	8.1	36.5	33.5	69.8	(D)	0.9	18.5
3568	Power transmission equipment, n.e.c. ----	-	12	7	0.5	6.0	0.4	0.7	3.6	13.6	6.5	19.4	(D)	CC	(D)
3569	General industrial machinery, n.e.c. ----	-	117	46	3.5	49.8	2.3	4.7	26.5	104.8	70.5	173.7	2.7	2.6	49.7
357	Office and computing machines ----	-	72	33	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.8	165.5
3573	Electronic computing equipment ----	-	44	23	5.6	70.7	3.3	6.3	31.6	145.6	126.0	264.9	11.9	4.7	125.3
3576	Scales and balances, except laboratory ----	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3579	Office machines, n.e.c. and typewriters ----	-	19	7	1.9	27.3	1.0	2.0	12.1	46.5	34.3	80.5	(D)	1.6	31.8
358	Refrigeration and service machinery ----	-	90	38	8.3	98.0	5.6	10.2	58.0	174.8	264.9	453.5	4.4	9.1	193.9
3581	Automatic merchandising machines ----	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3582	Commercial laundry equipment ----	-	5	3	0.2	2.0	0.1	0.2	1.4	4.9	4.8	10.0	(D)	(NA)	(NA)
3585	Refrigeration and heating equipment ----	-	35	19	6.0	67.7	4.3	7.8	43.2	116.5	202.3	336.2	2.8	6.9	155.9
3589	Service industry machinery, n.e.c. ----	-	45	13	1.3	16.4	0.6	1.2	7.0	34.0	36.6	69.3	0.7	1.0	17.4
359	Miscellaneous machinery, except electrical ----	E2	779	84	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.3	105.8
3599	Machinery, except electrical, n.e.c. ----	E2	775	83	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
36	Electric and electronic equipment -	-	919	390	77.6	1 089.5	53.5	101.8	630.8	1 929.6	1 350.0	3 251.0	88.3	96.5	1 590.2
361	Electric distributing equipment -	-	68	34	6.1	71.1	4.5	8.4	44.5	140.7	103.2	242.6	5.3	5.6	84.3
3612	Transformers ----	-	20	8	1.7	15.7	1.4	2.7	11.2	27.2	31.8	59.0	1.8	1.2	11.7
3613	Switchgear and switchboard apparatus ----	-	48	26	4.4	55.4	3.1	5.8	33.3	113.5	71.4	183.6	3.5	4.4	72.6
362	Electrical industrial apparatus --	E2	80	28	3.6	41.4	2.6	4.8	25.3	75.2	46.1	120.3	6.2	4.3	56.6
3621	Motors and generators ----	E1	19	11	2.1	23.7	1.6	2.9	16.2	46.3	23.0	58.9	3.7	3.0	38.0
3622	Industrial controls ----	E2	41	11	1.1	12.7	0.7	1.4	6.6	19.3	14.6	33.4	2.2	0.8	12.3
3624	Carbon and graphite products ----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3629	Electrical industrial apparatus, n.e.c. ----	E4	11	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.4
363	Household appliances ----	-	36	15	5.2	66.7	3.8	7.4	41.7	115.1	67.3	172.9	4.4	4.2	72.1
3631	Household cooking equipment ----	-	4	2	0.3	2.8	0.2	0.3	2.1	6.5	6.7	13.1	0.2	AA	(D)
3634	Electric housewares and fans ----	-	18	9	1.3	13.4	1.1	2.3	10.5	26.1	21.2	47.1	0.8	CC	(D)
3635	Household vacuum cleaners -	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3636	Sewing machines ----	-	7	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
364	Electric lighting and wiring equipment ----	-	139	68	11.0	122.8	8.0	14.7	72.5	271.6	214.1	479.5	12.4	17.4	253.9
3641	Electric lamps ----	-	16	6	1.7	18.1	1.5	2.9	14.6	47.0	27.7	68.7	2.0	FF	(D)
3643	Current-carrying wiring devices ----	-	32	16	2.7	26.8	2.1	4.0	18.2	51.1	34.9	85.6	2.0	3.6	39.3
3644	Noncurrent-carrying wiring devices ----	-	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3645	Residential lighting fixtures --	E1	48	22	2.1	20.6	1.6	2.9	12.1	38.6	36.8	76.6	0.7	2.8	37.7
3646	Commercial lighting fixtures --	-	16	8	1.4	15.0	1.1	1.7	10.4	44.7	37.0	80.9	(D)	EE	(D)
3647	Vehicular lighting equipment -	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3648	Lighting equipment, n.e.c. ----	-	14	8	0.9	10.1	0.6	1.2	5.2	22.4	22.5	45.4	0.7	1.5	29.7
365	Radio and TV receiving equipment ----	-	62	27	4.8	44.8	3.7	7.5	29.7	90.8	97.7	189.6	4.1	3.6	50.5
3651	Radio and TV receiving sets -	E1	25	9	1.5	12.0	1.1	2.1	7.1	27.7	35.2	63.1	0.9	0.7	9.0
3652	Phonograph records and prerecorded tape ----	-	37	18	3.3	32.8	2.5	5.4	22.5	63.1	62.5	126.5	3.1	3.0	41.5

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977										1972			
			E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
				Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
36	Electric and electronic equipment —Con.															
366	Communication equipment ----	-	130	57	27.0	486.2	17.3	32.1	282.8	814.2	487.1	1 306.2	28.2	39.7	758.8	
3661	Telephone and telegraph apparatus ----	-	9	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
3662	Radio and TV communication equipment --	-	121	52	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
367	Electronic components and accessories ----	E1	323	130	14.1	173.2	9.7	18.8	84.7	290.9	185.0	471.2	19.5	18.0	248.6	
3671	Electron tubes, all types ----	-	13	5	1.1	14.2	0.8	1.5	6.8	22.4	15.2	36.1	2.2	FF	(D)	
3674	Semiconductors and related devices ----	E3	34	11	2.6	45.6	1.1	2.2	13.9	34.4	17.3	51.0	5.0	2.8	17.8	
3675	Electronic capacitors ----	-	9	7	0.7	8.0	0.6	1.0	4.7	16.0	5.5	21.7	0.6	0.7	8.7	
3676	Electronic resistors ----	-	9	8	0.8	7.2	0.7	1.3	4.8	13.8	6.6	20.2	(D)	EE	(D)	
3677	Electronic coils and transformers ----	E3	20	12	0.8	7.8	0.6	1.2	4.5	12.6	8.4	21.0	0.3	0.9	8.3	
3678	Electronic connectors ----	-	5	3	0.3	3.0	0.2	0.4	1.9	8.1	8.0	16.0	(D)	BB	(D)	
3679	Electronic components, n.e.c. ----	E1	233	84	7.7	87.5	5.6	11.1	48.0	183.7	124.0	305.2	10.0	6.7	111.3	
369	Miscellaneous electrical equipment and supplies ----	-	81	31	5.7	83.4	4.0	8.2	49.6	131.0	149.4	268.7	8.3	3.7	65.3	
3691	Storage batteries ----	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	28.2	
3692	Primary batteries, dry and wet ----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
3693	X-ray, electromedical, and electrotherapeutic apparatus --	-	16	7	1.0	14.1	0.5	1.0	5.2	30.4	27.5	52.3	1.9	AA	(D)	
3694	Engine electrical equipment --	E4	17	9	1.0	10.6	0.9	1.7	7.4	20.0	17.5	36.8	1.0	0.7	11.0	
3699	Electrical equipment and supplies, n.e.c. ----	-	39	9	2.2	32.9	1.4	2.9	16.7	18.8	47.7	66.0	1.3	1.1	12.2	
37	Transportation equipment ----	-	225	77	21.2	375.3	16.9	35.0	285.4	1 174.9	2 934.7	4 097.2	52.6	26.0	917.7	
371	Motor vehicles and equipment -	-	100	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
3711	Motor vehicles and car bodies ----	-	6	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
3713	Truck and bus bodies ----	E6	25	5	0.3	3.0	0.2	0.4	2.2	5.8	8.4	14.3	0.2	(NA)	(NA)	
3714	Motor vehicle parts and accessories ----	-	63	19	2.1	28.1	1.3	2.6	14.1	55.7	63.4	118.6	2.2	3.1	42.6	
3715	Truck trailers ----	-	6	3	0.6	4.3	0.4	0.8	3.2	11.5	23.1	32.8	0.1	0.2	4.9	
372	Aircraft and parts ----	-	27	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.6	109.6	
3724	Aircraft engines and engine parts ----	-	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
3728	Aircraft equipment, n.e.c. ----	-	18	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
373	Ship and boat building and repairing ----	-	81	29	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
3731	Ship building and repairing --	-	22	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
3732	Boat building and repairing --	-	59	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
3743	Railroad equipment ----	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
38	Instruments and related products ----	-	431	179	28.6	393.6	15.5	29.6	175.7	885.7	599.9	1 480.1	39.4	22.6	505.0	
3811	Engineering and scientific instruments ----	-	46	22	3.9	62.8	2.0	4.1	27.8	118.2	66.1	184.4	4.7	1.9	35.0	
382	Measuring and controlling devices ----	-	127	55	6.1	84.6	3.2	6.2	34.9	183.6	116.7	292.7	7.9	4.6	71.8	
3822	Environmental controls ----	E1	16	4	0.2	1.9	0.1	0.2	1.0	3.6	2.0	5.6	(D)	(NA)	(NA)	
3823	Process control instruments --	E1	26	12	0.8	10.5	0.4	0.8	4.2	26.7	11.1	37.2	0.9	0.8	10.4	
3824	Fluid meters and counting devices ----	-	8	4	0.5	6.2	0.3	0.6	2.6	14.2	9.0	23.0	(D)	0.4	6.5	
3825	Instruments to measure electricity ----	-	44	20	3.5	52.2	1.7	3.3	20.8	107.9	74.4	176.2	3.0	2.4	35.2	
3829	Measuring and controlling devices, n.e.c. ----	E1	33	15	1.1	13.8	0.7	1.3	6.3	31.3	20.2	50.7	3.6	0.9	17.6	
3832	Optical instruments and lenses ----	-	34	13	0.7	9.4	0.4	0.9	4.5	17.3	10.6	28.0	0.6	BB	(D)	
384	Medical instruments and supplies ----	-	111	44	10.6	150.7	5.3	10.2	64.4	349.2	212.6	564.4	17.7	9.4	242.4	
3841	Surgical and medical instruments ----	E1	40	16	3.4	46.7	1.6	3.2	17.0	69.6	60.0	128.7	6.0	4.1	71.6	
3842	Surgical appliances and supplies ----	-	38	19	5.6	84.3	2.8	5.2	36.2	226.7	113.2	343.2	10.4	FF	(D)	
3843	Dental equipment and supplies ----	-	33	9	1.5	19.7	0.9	1.8	11.3	53.0	39.5	92.5	1.3	CC	(D)	
3851	Ophthalmic goods ----	-	29	9	1.1	11.4	0.9	1.8	6.8	22.2	10.5	32.0	0.4	EE	(D)	
3861	Photographic equipment and supplies ----	-	63	26	5.2	65.9	3.0	5.1	31.9	177.0	166.3	344.0	6.6	FF	(D)	
3873	Watches, clocks, and watchcases ----	E1	21	10	0.9	8.8	0.7	1.2	5.3	18.2	17.0	34.5	1.4	1.0	11.3	

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
39	Miscellaneous manufacturing industries -----	-	754	240	23.6	247.6	18.0	33.7	147.2	596.5	585.8	1 161.8	26.4	27.4	418.6
391	Jewelry, silverware, and plated ware -----	E1	109	29	2.9	33.7	2.2	4.1	20.0	71.5	88.3	155.5	1.1	FF	(D)
3911	Jewelry, precious metal -----	E1	86	20	2.0	24.9	1.5	2.7	14.2	54.8	63.9	114.5	0.4	2.2	36.0
3914	Silverware and plated ware --	E2	18	4	0.5	4.2	0.4	0.7	2.9	5.8	7.6	13.5	0.4	BB	(D)
3915	Jewelers' materials and lapidary work -----	-	25	5	0.5	4.6	0.4	0.6	2.9	10.9	16.8	27.6	0.3	0.5	7.3
3931	Musical instruments -----	E4	20	4	0.3	2.7	0.2	0.4	1.8	5.3	4.2	9.4	0.2	BB	(D)
394	Toys and sporting goods -----	-	121	56	6.0	57.5	4.7	9.1	32.3	159.3	176.0	322.5	9.0	7.5	109.2
3942	Dolls -----	-	16	8	1.1	11.4	0.9	1.7	5.6	46.6	44.6	82.1	2.4	CC	(D)
3944	Games, toys, and children's vehicles -----	-	46	22	3.4	31.8	2.6	5.2	18.0	76.5	92.3	165.7	2.9	FF	(D)
3949	Sporting and athletic goods, n.e.c. -----	E1	59	26	1.6	14.3	1.2	2.2	8.7	36.1	39.1	74.7	3.7	1.3	21.0
395	Pens, pencils, office and art supplies -----	-	77	25	2.7	27.2	2.0	4.0	17.2	66.2	60.1	126.0	3.7	2.4	48.1
3951	Pens and mechanical pencils -----	-	26	14	1.5	14.5	1.2	2.4	9.3	38.5	32.0	69.6	1.9	0.9	16.4
3952	Lead pencils and art goods --	E1	13	4	0.4	4.7	0.3	0.5	2.3	9.3	6.5	16.1	0.5	0.5	9.7
3953	Marking devices -----	E3	28	1	0.2	2.2	0.2	0.3	1.3	3.9	2.7	6.5	0.1	0.4	6.5
3955	Carbon paper and inked ribbons -----	-	10	6	0.5	5.8	0.4	0.8	4.3	14.5	18.9	33.8	1.3	0.5	15.4
396	Costume jewelry and notions --	-	60	27	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	31.6
3961	Costume jewelry -----	-	18	8	0.7	5.7	0.6	0.9	3.5	12.4	7.4	19.7	(D)	CC	(D)
3962	Artificial flowers -----	-	17	8	0.4	3.4	0.3	0.6	2.4	6.7	6.0	12.4	0.3	0.3	3.6
3963	Buttons -----	E1	11	5	0.3	2.9	0.2	0.5	1.8	4.7	3.3	8.0	0.1	BB	(D)
3964	Needles, pins, and fasteners -----	E1	14	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
399	Miscellaneous manufactures --	-	367	99	9.3	104.0	7.0	12.8	62.1	257.0	226.8	481.0	9.7	11.3	176.2
3991	Brooms and brushes -----	-	21	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3993	Signs and advertising displays -----	-	146	41	2.7	29.7	2.0	3.7	18.6	56.7	41.5	97.9	2.6	1.9	30.2
3996	Hard surface floor coverings -	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3999	Manufacturing industries, n.e.c. -----	E1	192	46	4.8	50.1	3.5	6.2	28.1	124.5	116.8	237.9	5.4	7.6	98.2
--	Administrative and auxiliary -----	-	511	328	85.9	1 748.6	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	New York-Newark-Jersey City, N.Y.-N.J.-Conn., SCSA -	-	41 325	13 366	1 502.0	20 379.2	919.2	1 747.6	9 319.5	40 638.1	44 236.4	84 486.0	1 949.6	1 694.5	29 668.0
20	Food and kindred products -	-	1 462	504	64.5	916.6	44.2	88.4	555.6	2 916.9	5 304.8	8 229.1	(D)	86.7	2 427.6
275	Commercial printing -	E2	3 387	475	40.6	575.5	30.8	57.2	391.7	1 073.9	757.7	1 828.8	(D)	(NA)	(NA)
28	Chemicals and allied products -	-	1 494	597	102.9	1 622.1	59.9	119.2	770.7	7 056.1	5 326.2	12 313.1	468.2	(NA)	(NA)
30	Rubber and miscellaneous plastics products -	E1	1 285	545	47.4	516.6	37.2	73.8	337.4	1 163.5	1 238.9	2 381.6	90.5	48.0	763.8
347	Metal services, n.e.c. -	E1	543	129	8.5	84.4	7.0	13.7	57.3	155.8	114.0	266.8	(D)	(NA)	(NA)
	Philadelphia-Wilmington-Trenton, Pa.-Del.-N.J.-Md., SCSA -	-	8 964	3 306	550.5	8 072.4	343.8	667.7	4 192.6	15 796.6	22 402.4	38 008.3	921.5	597.8	11 008.5
20	Food and kindred products -	-	567	256	41.5	554.3	29.1	57.4	346.8	1 542.4	2 995.6	4 528.2	(D)	43.9	997.5
201	Meat products -	E1	113	52	7.9	109.0	6.1	12.2	76.1	254.6	1 049.7	1 299.4	24.9	(NA)	(NA)
2017	Poultry and egg processing -	-	5	5	0.9	9.4	0.7	1.5	6.5	23.6	89.4	113.0	2.3	(NA)	(NA)
203	Preserved fruits and vegetables -	-	59	29	6.3	74.8	4.9	9.2	50.9	227.1	334.2	561.6	11.7	(NA)	(NA)
204	Grain mill products -	-	24	7	0.9	12.3	0.7	1.3	8.3	58.8	105.1	164.9	(D)	(NA)	(NA)
2052	Cookies and crackers -	-	17	5	2.9	41.8	2.5	5.3	35.2	136.2	88.2	224.6	(D)	(NA)	(NA)
2087	Flavoring extracts and sirups, n.e.c. -	E2	13	6	0.5	7.0	0.3	0.7	4.0	24.8	27.1	51.1	(D)	(NA)	(NA)
2231	Weaving and finishing mills, wool -	E4	9	4	0.3	2.1	0.2	0.3	1.5	3.1	1.4	4.5	0.1	(NA)	(NA)
2241	Narrow fabric mills -	E1	10	5	0.3	2.7	0.3	0.6	2.1	5.7	5.2	10.8	0.2	(NA)	(NA)
2258	Warp knit fabric mills -	-	12	6	0.5	6.1	0.5	0.9	4.5	13.2	16.4	29.5	0.5	(NA)	(NA)
228	Yarn and thread mills -	E1	28	23	1.9	15.3	1.7	3.3	12.3	26.9	38.0	64.8	1.5	(NA)	(NA)
2281	Yarn mills, except wool -	E4	8	5	0.6	5.3	0.6	1.1	4.4	11.3	15.4	26.3	(D)	(NA)	(NA)
2282	Throwing and winding mills -	-	8	8	0.6	4.5	0.5	1.1	3.8	5.8	7.7	13.7	0.1	(NA)	(NA)
2283	Wool yarn mills -	-	8	7	0.3	3.1	0.3	0.6	2.4	4.8	6.7	11.4	(D)	(NA)	(NA)
2284	Thread mills -	-	4	3	0.3	2.4	0.3	0.5	1.8	5.0	8.2	13.4	(D)	(NA)	(NA)
23	Apparel and other textile products -	-	663	348	35.5	288.1	30.4	52.8	211.9	578.2	571.3	1 127.6	(D)	48.6	490.2
234	Women's and children's undergarments -	-	11	8	0.8	5.4	0.7	1.3	3.8	11.9	11.1	23.4	0.1	(NA)	(NA)
2363	Children's coats and suits -	-	5	4	0.4	3.3	0.4	0.7	2.8	6.7	2.0	8.7	(D)	(NA)	(NA)
2395	Pleating and stitching -	E1	17	3	0.3	2.6	0.3	0.3	1.7	4.8	2.2	7.0	(D)	(NA)	(NA)
2514	Metal household furniture -	E1	19	12	1.6	14.5	1.3	2.6	10.4	21.5	33.7	58.5	0.2	(NA)	(NA)
252	Office furniture -	-	17	7	1.6	20.9	1.3	2.4	14.1	42.8	32.7	74.6	1.2	(NA)	(NA)
26	Paper and allied products -	-	266	150	18.9	263.9	14.6	28.2	181.9	660.6	849.8	1 504.6	38.7	21.2	419.1
2643	Bags, except textile bags -	E3	15	6	1.3	16.9	0.9	1.9	10.7	36.8	52.6	88.9	1.8	(NA)	(NA)
2648	Stationery products -	-	11	2	0.3	3.3	0.3	0.5	2.6	6.3	7.2	13.5	(D)	(NA)	(NA)
2649	Converted paper products, n.e.c. -	-	30	13	0.9	10.2	0.6	1.2	6.0	25.5	30.3	55.5	1.9	(NA)	(NA)
2652	Setup paperboard boxes -	-	11	10	0.6	6.2	0.6	1.0	4.7	9.2	8.7	17.7	0.7	(NA)	(NA)
2654	Sanitary food containers -	-	8	5	0.5	5.7	0.4	0.7	4.1	9.5	40.3	49.8	0.8	(NA)	(NA)
27	Printing and publishing -	-	1 324	289	41.4	537.8	24.1	43.3	291.8	1 186.5	685.0	1 872.9	57.4	41.0	743.0
2721	Periodicals -	-	52	15	3.5	41.9	0.7	1.2	6.2	251.4	153.8	405.0	1.1	(NA)	(NA)
2752	Commercial printing, lithographic -	E1	322	78	6.6	97.1	4.9	9.1	66.1	156.9	116.0	277.8	7.1	(NA)	(NA)
279	Printing trade services -	-	115	29	3.2	45.1	2.5	4.6	33.2	73.7	17.1	90.4	3.8	(NA)	(NA)
28	Chemicals and allied products -	-	421	197	42.5	747.6	26.1	51.6	397.4	2 684.0	2 619.3	5 288.0	(D)	44.8	1 728.3
289	Miscellaneous chemical products -	-	110	42	3.5	43.8	2.1	4.1	22.5	114.7	129.6	239.8	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
30	Philadelphia-Wilmington-Trenton, Pa-Del.-N.J.-Md., SCSA—Con.														
3011	Rubber and miscellaneous plastics products -----	-	343	163	21.9	291.2	16.8	33.0	200.1	630.3	722.9	1 337.5	39.0	23.6	472.2
3079	Tires and inner tubes -----	-	5	3	5.2	83.3	4.2	8.2	65.6	208.5	280.7	470.5	7.7	(NA)	(NA)
	Miscellaneous plastics products -----	-	287	129	12.4	152.3	9.4	18.5	98.1	333.2	348.5	682.3	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	381	145	16.8	220.2	13.1	25.9	157.3	488.4	436.9	928.5	30.7	19.6	376.2
3272	Concrete products, n.e.c. -----	E2	61	22	1.1	13.7	0.9	1.7	9.2	27.7	18.0	46.1	1.3	(NA)	(NA)
3317	Steel pipe and tubes ---	-	10	8	1.5	20.9	1.1	2.2	15.1	26.4	28.3	56.0	1.2	(NA)	(NA)
339	Miscellaneous primary metal products -----	-	35	15	1.1	17.4	0.8	1.6	11.1	50.5	40.7	90.0	2.9	(NA)	(NA)
3398	Metal heat treating -----	-	19	9	0.5	6.0	0.4	0.7	4.0	11.3	3.8	15.1	(D)	(NA)	(NA)
3399	Primary metal products, n.e.c. -----	-	16	6	0.7	11.3	0.5	0.9	7.1	39.2	36.9	74.9	(D)	(NA)	(NA)
341	Metal cans and shipping containers -----	-	18	16	3.1	49.0	2.7	5.3	41.0	134.9	205.6	335.6	3.7	(NA)	(NA)
3411	Metal cans -----	-	13	12	2.6	42.7	2.3	4.6	36.6	119.8	180.7	296.1	(D)	(NA)	(NA)
3412	Metal barrels, drums, and pails -----	-	5	4	0.5	6.3	0.4	0.7	4.4	15.1	24.9	39.5	(D)	(NA)	(NA)
3433	Heating equipment, except electric -----	-	17	7	0.9	11.1	0.5	1.0	5.6	21.6	24.9	46.6	1.0	(NA)	(NA)
3444	Sheet metal work -----	-	122	35	3.3	38.4	2.4	4.5	25.1	68.8	80.8	148.7	3.7	(NA)	(NA)
3452	Bolts, nuts, rivets, and washers -----	-	26	17	3.0	40.4	2.4	4.9	31.2	90.3	59.0	147.9	(D)	(NA)	(NA)
3495	Wire springs -----	-	9	6	0.5	5.2	0.4	0.8	3.8	8.5	9.9	18.3	0.7	(NA)	(NA)
35	Machinery, except electrical	-	1 294	333	51.4	751.3	32.3	68.7	419.1	1 355.6	1 127.3	2 463.7	(D)	51.7	1 015.9
3535	Conveyors and conveying equipment --	-	19	10	1.5	22.2	0.9	1.6	10.6	48.3	35.3	81.5	0.7	(NA)	(NA)
354	Metalworking machinery --	E1	279	49	4.7	75.4	3.6	7.7	54.3	130.5	59.2	187.2	(D)	(NA)	(NA)
3542	Machine tools, metal forming types -----	-	12	4	0.6	10.5	0.4	0.9	6.4	22.1	15.0	36.4	1.2	(NA)	(NA)
3551	Food products machinery -----	-	16	7	0.5	7.3	0.3	0.6	3.5	13.9	9.8	24.0	0.3	(NA)	(NA)
3554	Paper industries machinery -----	-	15	7	1.3	20.5	0.7	1.5	10.7	35.2	24.1	58.7	1.4	(NA)	(NA)
3585	Refrigeration and heating equipment -----	-	33	18	4.1	45.4	2.9	9.5	29.0	91.6	99.0	188.0	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E1	494	68	5.5	72.1	4.4	8.6	50.2	129.5	71.5	199.2	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	475	199	41.2	557.8	29.2	55.2	340.5	1 076.6	978.7	2 029.3	46.1	55.9	978.4
364	Electric lighting and wiring equipment -----	-	97	45	7.6	80.8	5.6	10.3	47.7	184.5	207.3	383.5	(D)	(NA)	(NA)
3644	Noncurrent-carrying wiring devices -----	E1	10	7	0.8	10.7	0.7	1.2	6.9	24.0	30.8	53.7	0.6	(NA)	(NA)
3646	Commercial lighting fixtures -----	-	11	5	1.3	13.1	1.0	1.7	8.4	32.9	69.5	101.2	1.5	(NA)	(NA)
3676	Electronic resistors -----	-	7	4	0.8	7.7	0.7	1.3	5.7	15.3	5.3	21.3	0.7	(NA)	(NA)
3678	Electronic connectors ---	-	5	3	0.3	2.7	0.2	0.4	1.8	5.9	4.2	10.3	(D)	(NA)	(NA)
3724	Aircraft engines and engine parts -----	-	8	4	0.4	6.3	0.3	0.6	3.8	11.6	6.8	18.1	0.6	(NA)	(NA)
3991	Brooms and brushes ---	-	11	5	0.4	4.3	0.2	0.4	1.7	5.3	5.8	10.5	0.1	(NA)	(NA)
	Allentown-Bethlehem-Easton, Pa.-N.J., SMSA-----	-	1 183	621	106.8	1 430.8	75.8	140.9	853.3	2 731.8	3 105.1	5 828.2	172.8	110.4	1 805.6
20	Food and kindred products --	-	77	25	6.2	88.7	4.3	8.2	56.8	305.0	707.1	1 014.7	10.8	6.0	137.4
202	Dairy products -----	-	15	4	0.7	8.5	0.4	0.9	5.5	13.8	75.7	88.9	0.7	0.9	7.0
205	Bakery products -----	E1	13	1	0.3	4.3	0.2	0.3	2.3	8.2	7.2	15.4	0.2	0.7	10.3
22	Textile mill products -----	-	76	51	5.2	48.7	4.5	8.8	36.8	104.0	137.4	241.8	7.6	6.6	102.8
225	Knitting mills -----	E1	47	34	3.9	36.2	3.3	6.3	26.7	82.8	106.4	189.5	7.1	4.5	68.0
228	Yarn and thread mills ---	-	5	4	0.5	3.7	0.4	0.9	3.0	5.0	10.4	15.7	(D)	0.6	4.8
23	Apparel and other textile products -----	-	345	262	24.3	163.9	22.0	36.4	135.6	253.5	154.0	404.6	6.1	24.2	186.2
232	Men's and boys' furnishings -----	-	24	15	1.9	13.5	1.8	3.0	11.5	17.4	6.1	24.3	(D)	2.9	22.0

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	E ¹	1977											1972	
			All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Allentown-Bethlehem-Easton, Pa.-N.J., SMSA—Con.														
23	Apparel and other textile products—Con.														
232	Men's and boys' furnishings—Con.														
2321	Men's and boys' shirts and nightwear -----	E1	11	6	0.5	3.7	0.5	0.8	3.1	4.8	2.5	8.1	(D)	1.2	10.8
2327	Men's and boys' separate trousers -----	-	8	7	1.2	8.5	1.1	1.9	7.7	11.3	2.4	13.7	(D)	0.8	5.6
2331	Women's and misses' blouses and waists -----	-	162	142	10.3	65.0	9.6	15.9	57.3	81.2	26.8	108.4	2.5	8.1	49.6
2335	Women's and misses' dresses -----	E4	44	25	1.8	10.7	1.7	2.5	9.4	16.4	4.9	21.2	0.4	2.8	18.4
2337	Women's and misses' suits and coats -----	-	14	9	0.9	6.6	0.8	1.3	4.9	20.3	10.4	30.5	(D)	0.5	3.7
2339	Women's and misses' outerwear, n.e.c. -----	E1	37	29	2.9	18.7	2.7	4.4	15.9	26.7	9.2	35.9	0.6	2.5	16.4
238	Miscellaneous apparel and accessories -----	-	7	5	0.8	4.4	0.7	1.2	3.7	13.0	17.7	30.3	(D)	0.7	4.0
239	Miscellaneous fabricated textile products -----	-	18	8	1.2	10.4	0.9	1.5	6.7	18.5	22.4	39.2	(D)	1.8	19.8
2392	House furnishings, n.e.c. -----	-	8	5	0.9	7.4	0.7	1.2	4.6	14.1	17.2	29.6	0.1	1.1	12.7
24	Lumber and wood products --	E1	27	4	0.4	3.0	0.3	0.5	2.2	7.4	10.7	18.0	1.5	0.4	5.3
25	Furniture and fixtures -----	-	32	13	0.9	10.5	0.8	1.4	6.6	22.8	13.4	35.4	1.4	1.0	12.7
251	Household furniture -----	E1	16	6	0.3	2.9	0.3	0.6	2.3	5.6	4.1	9.3	0.2	0.3	3.4
254	Partitions and fixtures -----	-	7	3	0.3	4.7	0.2	0.4	2.5	12.0	5.5	17.4	(D)	0.3	5.1
26	Paper and allied products ---	-	21	17	2.0	24.7	1.6	3.1	17.9	65.5	76.2	140.3	3.0	3.0	52.2
264	Miscellaneous converted paper products -----	-	7	5	0.7	9.7	0.6	1.3	7.1	35.9	35.2	70.9	(D)	(NA)	(NA)
2653	Corrugated and solid fiber boxes -----	-	6	4	0.4	5.6	0.3	0.5	3.2	8.7	20.0	28.8	1.2	(NA)	(NA)
27	Printing and publishing -----	E1	109	26	4.1	49.7	2.2	3.9	24.7	114.4	61.9	175.7	3.3	3.9	58.9
2711	Newspapers -----	-	12	7	1.4	17.8	0.4	0.8	4.9	39.1	16.2	55.3	1.1	1.5	25.8
273	Books -----	E6	6	3	0.3	3.2	0.2	0.4	2.2	6.7	2.7	9.4	0.3	(NA)	(NA)
275	Commercial printing -----	E1	69	11	1.4	18.9	1.1	2.0	14.7	30.6	14.7	45.2	1.0	1.8	23.8
2752	Commercial printing, lithographic -----	E1	33	10	1.2	16.8	1.0	1.8	12.9	26.6	12.5	39.0	1.0	1.3	16.7
28	Chemicals and allied products -----	-	41	18	3.3	50.1	2.1	4.6	28.5	152.4	148.0	310.4	26.2	3.3	87.5
281	Industrial inorganic chemicals -----	-	11	7	1.8	26.2	1.1	2.2	14.6	93.3	75.1	165.9	(D)	2.0	63.9
30	Rubber and miscellaneous plastics products -----	-	30	20	2.7	30.3	2.2	4.1	21.9	82.2	103.4	186.5	8.7	2.8	55.8
32	Stone, clay, and glass products -----	-	68	29	2.8	39.7	2.3	4.3	29.8	85.1	80.0	165.6	8.2	3.0	75.2
3241	Cement, hydraulic -----	-	8	8	1.5	24.8	1.2	2.3	19.3	48.9	47.5	97.8	1.6	1.8	56.3
327	Concrete, gypsum, and plaster products -----	E1	28	9	0.4	4.1	0.3	0.4	2.4	8.7	11.1	19.6	0.8	0.5	8.4
329	Miscellaneous nonmetallic mineral products -----	-	14	7	0.5	7.4	0.4	0.8	5.4	21.6	19.4	40.4	5.1	0.4	7.8
33	Primary metal industries -----	-	28	18	15.0	261.0	11.4	20.6	187.7	465.6	476.4	928.8	44.5	17.5	357.2
336	Nonferrous foundries -----	-	5	4	0.4	4.5	0.4	0.7	3.6	8.1	8.1	16.1	(D)	0.3	3.6
344	Fabricated structural metal products -----	-	43	13	2.7	37.0	1.9	3.5	24.3	64.9	76.4	143.9	5.1	2.4	31.4
3443	Fabricated plate work (boiler shops) -----	E1	14	6	1.3	17.3	0.8	1.6	11.1	34.4	27.3	58.3	(D)	0.7	13.0
349	Miscellaneous fabricated metal products -----	-	15	8	1.1	15.0	0.8	1.6	10.1	32.2	29.9	63.5	0.9	1.2	21.2
3499	Fabricated metal products, n.e.c. -----	E1	7	3	0.3	3.5	0.2	0.4	2.1	8.8	6.2	14.9	0.3	(NA)	(NA)
35	Machinery, except electrical	-	89	34	6.9	100.2	4.3	8.8	56.5	236.7	218.6	468.6	13.8	5.2	104.8
353	Construction and related machinery -----	-	9	5	1.2	18.1	0.6	1.1	7.7	52.3	27.6	78.1	(D)	1.1	15.9
354	Metalworking machinery ---	-	10	4	0.5	7.2	0.4	0.7	4.4	12.6	9.3	22.1	(D)	(NA)	(NA)
355	Special industry machinery -----	-	12	4	0.4	4.7	0.3	0.5	3.2	16.9	24.4	43.4	(D)	0.7	14.3
358	General industrial machinery -----	-	20	11	3.4	51.5	2.1	4.3	28.7	115.2	137.0	265.6	(D)	(NA)	(NA)
357	Office and computing machines -----	-	3	3	0.9	11.7	0.7	1.5	7.9	27.8	10.8	38.4	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	40	21	8.6	126.0	6.9	13.5	92.4	305.4	179.4	479.3	18.5	9.4	204.1

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Allentown-Bethlehem-Easton, Pa.-N.J., SMSA—Con.														
36	Electric and electronic equipment—Con.														
364	Electric lighting and wiring equipment-----	-	8	6	1.4	12.9	1.1	2.2	10.0	27.1	20.1	47.3	(D)	2.1	33.2
38	Instruments and related products-----	-	16	7	1.0	10.6	0.8	1.5	7.4	18.7	6.5	23.0	1.0	0.8	13.0
382	Measuring and controlling devices-----	-	7	4	0.5	5.0	0.4	0.7	3.7	8.5	2.4	9.3	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries ---	-	38	14	2.6	28.9	2.0	4.1	20.7	73.7	56.0	127.2	7.5	(NA)	(NA)
--	Administrative and auxiliary --	-	35	21	9.7	213.6	-	-	-	-	-	-	-	(NA)	(NA)
	Atlantic City SMSA-----	-	211	66	8.7	88.7	7.0	13.1	64.7	284.4	147.7	430.4	(D)	10.4	225.5
20	Food and kindred products --	E1	31	11	1.3	12.6	1.1	2.0	9.1	15.2	28.9	44.5	1.3	1.2	14.1
23	Apparel and other textile products-----	-	34	17	2.3	19.9	2.1	3.7	16.5	30.8	14.8	44.8	0.2	3.1	31.6
2311	Men's and boys' suits and coats-----	-	6	5	1.6	15.1	1.4	2.6	12.5	23.9	13.6	36.8	(D)	2.1	25.4
233	Women's and misses' outerwear-----	E1	15	8	0.5	3.4	0.5	0.7	2.7	4.7	0.6	5.2	(D)	0.5	3.6
30	Rubber and miscellaneous plastics products-----	E1	10	5	0.9	10.6	0.7	1.4	6.5	23.6	13.6	36.1	1.8	(NA)	(NA)
3079	Miscellaneous plastics products-----	E1	10	5	0.9	10.6	0.7	1.4	6.5	23.6	13.6	36.1	1.8	(NA)	(NA)
32	Stone, clay, and glass products-----	-	19	8	1.6	16.3	1.2	2.3	12.2	44.9	12.9	57.7	1.8	1.8	33.2
	Jersey City SMSA-----	-	1 857	655	72.2	870.1	53.8	100.8	557.5	1 983.4	2 733.7	4 702.1	94.6	95.3	1 899.2
20	Food and kindred products --	-	102	36	5.7	89.5	3.9	8.2	56.1	276.2	954.1	1 229.4	19.0	8.8	332.9
201	Meat products-----	-	20	7	0.8	13.6	0.5	1.1	9.3	12.8	134.3	149.0	(D)	1.9	32.0
2013	Sausages and other prepared meats-----	-	11	7	0.7	13.0	0.5	1.0	8.8	12.7	128.3	142.0	(D)	1.5	19.9
205	Bakery products-----	-	24	8	1.1	13.4	0.6	1.3	6.3	32.0	38.6	70.5	(D)	1.1	19.3
207	Fats and oils-----	-	8	6	0.7	11.2	0.5	1.1	8.4	53.4	130.7	187.0	(D)	0.7	22.8
209	Miscellaneous foods and kindred products-----	-	14	5	2.2	36.5	1.4	3.1	22.1	95.7	514.1	604.7	(D)	3.3	202.4
22	Textile mill products-----	E3	142	54	4.1	36.3	3.6	7.2	28.4	62.4	61.5	122.7	(D)	4.8	65.5
225	Knitting mills-----	E3	80	33	2.7	22.6	2.4	4.7	17.8	38.4	35.7	73.3	(D)	3.1	42.8
2257	Circular knit fabric mills-----	E4	15	4	0.7	5.6	0.5	1.1	3.9	10.7	13.0	23.5	2.2	0.7	12.3
226	Textile finishing, except wool-----	E3	16	9	0.5	6.4	0.5	1.0	5.2	11.0	8.3	19.2	(D)	1.0	13.6
2262	Finishing plants, synthetics-----	E1	8	6	0.3	3.9	0.3	0.6	3.1	6.4	3.2	9.6	(D)	(NA)	(NA)
229	Miscellaneous textile goods-----	E5	36	8	0.6	5.0	0.5	1.1	3.7	9.9	10.1	19.7	(D)	0.4	5.5
23	Apparel and other textile products-----	E2	789	246	17.4	144.2	15.0	26.3	104.2	272.1	351.5	619.9	(D)	19.8	246.4
233	Women's and misses' outerwear-----	E2	334	154	9.6	73.4	8.4	14.1	53.9	149.5	172.5	320.6	(D)	9.6	98.9
2331	Women's and misses' blouses and waists-----	-	33	15	0.9	7.9	0.8	1.3	5.2	20.5	36.4	56.2	(D)	0.5	6.7
2335	Women's and misses' dresses-----	E2	173	43	2.9	22.8	2.5	4.2	15.6	43.5	60.4	103.1	(D)	2.9	36.0
2337	Women's and misses' suits and coats-----	E3	96	78	4.5	33.1	4.1	6.8	26.7	60.9	51.6	112.8	(D)	4.8	38.6
2339	Women's and misses' outerwear, n.e.c.-----	E1	32	18	1.2	9.5	1.0	1.7	6.4	24.6	24.1	48.5	(D)	1.3	17.6
234	Women's and children's undergarments-----	-	18	12	1.5	13.2	1.0	1.7	6.0	23.1	55.9	77.9	(D)	2.0	25.9
236	Children's outerwear-----	E1	29	18	1.1	9.3	1.0	1.6	6.5	18.7	27.1	45.1	(D)	1.5	20.2
239	Miscellaneous fabricated textile products-----	E2	370	48	4.4	41.9	3.9	7.6	32.9	72.1	87.7	159.2	(D)	4.6	62.6
2392	House furnishings, n.e.c.-----	-	23	15	1.4	11.7	1.3	2.5	9.6	18.3	39.5	57.7	(D)	1.3	16.7
2395	Pleating and stitching ---	E3	86	9	0.8	6.3	0.7	1.2	4.6	11.2	13.1	24.2	(D)	(NA)	(NA)
25	Furniture and fixtures-----	-	34	9	1.5	18.3	1.1	3.2	13.8	24.7	27.8	51.4	(D)	1.4	17.3
251	Household furniture-----	E2	20	4	0.4	2.9	0.4	0.7	2.0	5.6	7.6	13.1	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Jersey City SMSA—Con.														
26	Paper and allied products ---	E1	47	31	2.7	34.9	2.0	3.9	22.6	57.6	73.1	130.8	4.9	3.7	52.3
2649	Converted paper products, n.e.c. -----	-	7	6	0.4	4.2	0.3	0.6	3.0	8.4	7.4	15.7	(D)	(NA)	(NA)
265	Paperboard containers and boxes -----	E1	30	19	1.7	23.9	1.3	2.4	14.8	37.4	51.8	89.0	3.6	2.4	38.0
2653	Corrugated and solid fiber boxes -----	E1	19	12	1.3	19.0	0.9	1.8	11.3	28.4	44.8	73.1	3.2	1.6	25.4
275	Commercial printing -----	E1	67	14	1.1	16.3	0.9	1.5	11.7	27.6	26.1	53.7	1.2	2.5	42.4
278	Blankbooks and bookbinding -----	-	9	5	0.5	4.8	0.4	0.8	3.3	8.2	1.9	10.0	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	97	53	6.9	105.9	4.2	8.2	57.6	463.1	538.6	997.8	27.6	7.6	347.3
281	Industrial inorganic chemicals -----	-	5	4	0.3	4.2	0.2	0.3	2.5	30.7	54.3	84.9	1.9	(NA)	(NA)
282	Plastics materials and synthetics -----	-	7	6	0.6	9.6	0.4	0.9	5.8	32.3	64.0	97.0	3.9	(NA)	(NA)
2821	Plastics materials and resins -----	-	7	6	0.6	9.6	0.4	0.9	5.8	32.3	64.0	97.0	3.9	0.3	6.3
284	Soaps, cleaners, and toilet goods -----	-	27	10	3.3	50.9	1.9	3.6	28.5	273.0	223.5	498.4	11.1	3.8	243.1
2851	Paints and allied products -----	-	15	8	0.9	11.0	0.6	1.0	4.6	34.5	31.8	63.0	(D)	0.8	15.4
286	Industrial organic chemicals -----	-	13	11	1.1	18.3	0.7	1.4	10.5	57.3	122.0	176.9	7.9	1.4	42.1
2865	Cyclic crudes and intermediates -----	-	7	6	0.6	10.6	0.4	0.7	5.6	24.6	72.2	96.7	3.2	0.5	15.7
2869	Industrial organic chemicals, n.e.c. -----	-	6	5	0.5	7.7	0.3	0.7	4.9	32.6	49.8	80.2	4.7	0.9	26.4
289	Miscellaneous chemical products -----	-	20	9	0.5	7.5	0.3	0.6	3.7	18.5	26.5	45.5	0.8	0.6	18.3
2899	Chemical preparations, n.e.c. -----	-	11	6	0.3	4.8	0.2	0.4	2.5	13.6	19.0	33.0	(D)	0.4	14.6
29	Petroleum and coal products -----	-	10	7	0.4	5.5	0.3	0.6	3.5	11.6	32.5	45.7	1.4	(NA)	(NA)
295	Paving and roofing materials -----	-	6	5	0.3	3.8	0.2	0.5	3.1	8.3	26.7	36.5	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	E2	44	26	2.1	21.8	1.7	3.3	14.1	45.5	53.6	98.5	2.9	1.3	18.8
3079	Miscellaneous plastics products -----	E2	38	23	2.0	20.3	1.6	3.0	13.2	42.4	48.4	90.1	(D)	1.2	17.0
31	Leather and leather products -----	-	18	12	2.7	19.0	2.4	3.8	13.7	42.7	53.9	94.6	1.6	2.5	25.7
317	Handbags and other personal leather goods --	-	10	6	2.1	13.7	1.8	2.9	10.0	29.3	22.1	51.3	(D)	1.9	19.1
32	Stone, clay, and glass products -----	-	32	10	2.2	28.9	1.9	3.7	23.5	68.9	58.9	128.1	2.4	2.3	48.6
329	Miscellaneous nonmetallic mineral products -----	-	11	2	0.3	3.8	0.2	0.4	2.3	8.1	6.5	14.6	0.3	(NA)	(NA)
33	Primary metal industries -----	-	32	14	1.5	24.1	1.1	2.3	13.6	54.0	75.6	128.0	2.3	3.4	71.0
335	Nonferrous rolling and drawing -----	-	8	4	0.8	14.6	0.5	1.1	7.0	33.9	42.2	75.5	1.3	2.5	55.4
336	Nonferrous foundries -----	-	11	4	0.3	3.4	0.2	0.5	2.7	7.3	5.4	12.1	(D)	(NA)	(NA)
34	Fabricated metal products ---	E1	96	31	2.1	29.9	1.7	3.6	22.0	57.0	87.4	144.2	1.9	3.8	66.9
344	Fabricated structural metal products -----	E3	37	9	0.5	5.9	0.4	0.7	3.9	10.6	19.5	29.7	0.3	0.6	10.4
349	Miscellaneous fabricated metal products -----	E1	23	7	0.5	6.6	0.4	0.8	4.5	11.3	11.5	24.4	0.6	0.8	10.8
3498	Fabricated pipe and fittings -----	-	4	3	0.3	3.8	0.2	0.4	2.6	6.1	7.3	14.9	(D)	(NA)	(NA)
35	Machinery, except electrical -	-	96	22	3.2	48.4	1.9	3.8	25.2	89.4	52.0	139.6	2.6	4.5	97.4
355	Special industry machinery -----	E2	19	6	0.4	5.9	0.3	0.5	3.4	9.0	9.0	18.5	(D)	0.5	8.5
356	General industrial machinery -----	-	17	6	1.3	20.1	0.8	1.6	11.5	46.6	24.3	68.9	1.7	1.1	20.1
36	Electric and electronic equipment -----	-	53	25	9.7	150.1	7.4	13.3	103.2	316.2	196.3	509.3	9.1	17.2	322.2
364	Electric lighting and wiring equipment -----	-	12	4	1.4	14.8	1.2	2.0	11.5	39.4	24.1	63.3	0.4	(NA)	(NA)
3662	Radio and TV communication equipment -----	E3	7	4	0.3	2.7	0.2	0.3	1.5	4.6	2.2	6.8	(D)	1.0	9.7
38	Instruments and related products -----	-	15	7	1.2	5.7	0.7	0.6	3.0	14.6	10.0	25.5	0.2	(NA)	(NA)
39	Miscellaneous manufacturing industries ---	-	76	23	2.7	25.4	2.1	3.6	15.0	39.2	45.4	84.2	(D)	4.3	53.4

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972	
			All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
	Jersey City SMSA—Con.														
39	Miscellaneous manufacturing industries— Con.	-	13	5	0.6	5.2	0.5	1.0	4.0	10.4	15.3	25.2	0.4	1.3	16.3
394	Toys and sporting goods --	-	10	4	0.5	4.6	0.3	0.5	2.5	7.5	6.1	13.9	0.3	(NA)	(NA)
395	Pens, pencils, office and art supplies -----	E1	9	4	0.8	7.7	0.6	0.9	4.0	5.5	8.5	13.7	0.2	(NA)	(NA)
396	Costume jewelry and notions -----	-	36	9	0.7	6.5	0.5	1.0	3.8	13.7	12.8	26.4	(D)	1.1	14.4
399	Miscellaneous manufactures -----	-	616	181	26.6	351.8	15.9	31.0	155.6	755.3	719.6	1 471.9	29.5	26.1	465.8
	Long Branch-Asbury Park SMSA -----	-	29	13	1.6	19.3	1.2	2.5	12.3	143.8	246.4	396.5	2.6	1.3	79.0
20	Food and kindred products --	-	9	3	0.3	2.9	0.2	0.3	1.6	4.9	3.3	8.3	0.2	(NA)	(NA)
205	Bakery products -----	-	9	3	0.3	2.9	0.2	0.3	1.6	4.9	3.3	8.3	0.2	(NA)	(NA)
2051	Bread, cake, and related products -----	-	68	41	2.3	15.1	2.0	3.5	11.9	23.0	15.3	38.1	0.3	3.0	21.1
23	Apparel and other textile products -----	E1	33	20	1.1	7.1	1.0	1.8	6.1	10.0	3.5	13.5	(D)	(NA)	(NA)
233	Women's and misses' outerwear -----	E1	12	8	0.4	2.6	0.4	0.7	2.2	3.3	0.5	3.7	(D)	0.6	3.5
2335	Women's and misses' dresses -----	E3	13	9	0.4	2.7	0.4	0.6	2.2	4.1	2.4	6.5	(D)	0.6	4.2
2337	Women's and misses' suits and coats -----	E1	8	3	0.3	1.9	0.2	0.4	1.6	2.6	0.7	3.3	(D)	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c. -----	-	10	10	0.6	3.2	0.5	0.9	2.9	4.2	3.0	7.1	(D)	0.8	4.6
236	Children's outerwear -----	E1	13	6	1.2	13.4	1.0	1.8	9.4	35.3	27.5	63.3	1.6	(NA)	(NA)
26	Paper and allied products ---	-	83	8	1.6	14.1	0.6	0.9	5.3	27.0	13.9	40.9	1.6	1.2	18.0
27	Printing and publishing -----	E1	15	3	1.2	9.8	0.2	0.4	2.5	18.5	8.5	27.1	1.0	0.8	11.5
2711	Newspapers -----	-	21	7	1.8	27.3	1.2	2.6	15.0	152.2	100.3	248.4	7.3	1.6	97.0
28	Chemicals and allied products -----	-	37	21	1.8	18.1	1.5	2.8	13.3	41.3	35.1	75.5	1.8	1.6	22.0
30	Rubber and miscellaneous plastics products -----	-	20	6	1.9	23.7	1.6	3.2	20.4	53.7	54.7	109.7	2.2	2.0	43.0
32	Stone, clay, and glass products -----	-	13	5	0.5	5.5	0.4	0.7	3.4	12.6	17.0	28.9	0.5	0.4	6.3
33	Primary metal industries ----	E1	4	3	0.3	3.2	0.2	0.4	2.1	6.1	6.6	12.2	(D)	(NA)	(NA)
335	Nonferrous rolling and drawing -----	E1	52	6	1.0	10.8	0.8	1.5	6.7	24.7	24.0	48.1	(D)	1.0	17.7
34	Fabricated metal products ---	E1	75	10	2.6	35.1	1.6	3.2	18.6	73.5	42.2	110.9	4.5	2.0	42.2
35	Machinery, except electrical -	-	76	24	2.8	31.1	1.9	3.6	15.4	75.5	52.9	126.7	2.1	3.3	56.3
36	Electric and electronic equipment -----	E1	8	2	0.3	2.9	0.2	0.5	2.1	5.9	4.1	10.2	(D)	(NA)	(NA)
364	Electric lighting and wiring equipment -----	E1	14	8	1.0	11.8	0.6	1.0	4.2	24.4	14.4	37.7	0.4	1.2	10.9
366	Communication equipment -----	-	32	12	1.3	14.4	0.9	1.8	8.0	41.0	30.3	70.6	1.4	0.9	26.0
367	Electronic components and accessories -----	E1	25	11	1.1	12.8	0.8	1.6	7.2	37.9	28.8	66.5	1.1	(NA)	(NA)
3679	Electronic components, n.e.c. -----	-	21	9	1.2	14.8	0.8	1.8	9.4	37.9	25.2	65.5	0.8	1.0	17.6
38	Instruments and related products -----	-	9	4	0.5	6.0	0.3	0.7	2.9	11.8	8.2	19.9	0.3	(NA)	(NA)
382	Measuring and controlling devices -----	-	1 147	540	80.5	1 174.7	49.7	97.9	602.3	2 945.2	3 986.3	6 864.2	164.7	80.5	2 021.7
	New Brunswick-Perth Amboy-Sayreville SMSA ----	-	46	25	3.5	45.9	2.6	5.2	31.7	161.4	241.4	405.1	15.7	3.1	98.1
20	Food and kindred products --	-	5	3	0.3	2.7	0.3	0.5	2.0	5.9	28.7	34.6	0.3	(NA)	(NA)
201	Meat products -----	-	9	5	0.5	7.2	0.3	0.6	3.5	11.7	31.3	43.2	0.4	0.6	11.9
202	Dairy products -----	E4	5	3	0.3	4.3	0.2	0.4	2.7	6.1	15.8	22.2	(D)	(NA)	(NA)
2024	Ice cream and frozen desserts -----	E3	9	4	0.5	6.0	0.3	0.6	3.4	48.5	67.7	117.0	1.1	0.3	14.5
208	Beverages -----	-	18	3	0.5	6.2	0.5	0.9	5.0	12.3	26.5	38.6	0.3	1.2	22.1
22	Textile mill products -----	E1													

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	New Brunswick-Perth Amboy-Sayreville SMSA— Con.														
236	Children's outerwear -----	E1	9	5	0.4	2.4	0.3	0.6	1.8	5.7	4.5	10.2	(D)	0.6	4.3
238	Miscellaneous apparel and accessories -----	-	7	4	0.6	3.4	0.5	0.9	2.7	5.8	4.5	10.3	(D)	(NA)	(NA)
24	Lumber and wood products --	E3	27	4	0.3	3.5	0.3	0.5	2.4	7.1	6.3	13.2	0.2	0.4	6.4
25	Furniture and fixtures -----	E1	23	8	0.5	5.4	0.4	0.7	3.7	9.9	8.5	18.3	(D)	0.4	6.5
26	Paper and allied products ---	-	41	31	5.3	81.6	3.4	6.9	44.8	183.0	214.4	392.4	16.4	5.5	101.1
264	Miscellaneous converted paper products -----	-	22	14	3.4	52.7	1.9	3.8	24.7	126.7	126.4	247.4	10.0	3.5	60.6
2643	Bags, except textile bags -----	E1	5	4	0.3	3.1	0.2	0.4	2.1	8.7	10.0	18.5	0.4	0.4	4.2
2653	Corrugated and solid fiber boxes -----	-	9	8	0.7	9.6	0.5	1.1	6.2	19.4	34.0	53.3	2.0	(NA)	(NA)
2655	Fiber cans, drums, and similar products -----	-	4	4	0.4	4.6	0.3	0.6	3.7	10.1	16.3	26.1	0.9	(NA)	(NA)
27	Printing and publishing -----	-	124	27	2.9	38.5	1.4	2.6	16.4	93.1	44.4	136.9	4.8	1.9	52.4
2711	Newspapers -----	-	10	4	1.1	16.4	0.3	0.5	3.1	43.7	9.3	53.0	(D)	1.0	33.2
273	Books -----	-	8	3	0.4	3.1	0.1	0.1	0.4	7.4	3.0	10.3	0.1	(NA)	(NA)
275	Commercial printing -----	-	67	12	1.0	14.0	0.7	1.4	10.3	30.0	23.0	52.6	3.3	0.5	8.2
2752	Commercial printing, lithographic -----	-	24	6	0.5	8.7	0.4	0.8	6.5	18.6	16.5	34.9	2.0	(NA)	(NA)
28	Chemicals and allied products -----	-	108	72	15.1	235.9	10.1	20.7	136.0	1 005.0	955.5	1 923.3	50.7	15.3	670.0
281	Industrial inorganic chemicals -----	-	16	7	1.0	12.9	0.7	1.4	8.0	46.8	57.3	99.9	4.1	1.9	63.6
2819	Industrial inorganic chemicals, n.e.c. -----	-	6	4	0.5	7.0	0.3	0.8	4.7	29.6	39.2	68.6	3.2	(NA)	(NA)
282	Plastics materials and synthetics -----	-	11	10	0.9	13.5	0.7	1.5	9.1	36.4	114.1	149.6	2.5	0.8	25.7
284	Soaps, cleaners, and toilet goods -----	-	22	16	5.9	84.7	3.8	7.6	46.2	477.8	219.8	691.6	10.0	4.2	254.8
2844	Toilet preparations -----	-	13	10	5.3	75.8	3.4	6.6	39.9	361.5	163.1	518.9	9.2	3.6	182.7
2851	Paints and allied products -----	-	13	8	1.1	17.1	0.6	1.2	9.0	83.9	75.3	158.6	3.9	1.6	61.2
286	Industrial organic chemicals -----	-	14	12	2.0	35.2	1.2	2.5	19.5	82.8	278.0	357.4	6.9	1.7	53.5
29	Petroleum and coal products -----	-	14	8	1.3	23.5	1.0	2.1	16.8	174.6	616.1	788.3	(D)	1.3	85.5
30	Rubber and miscellaneous plastics products -----	-	83	53	4.6	52.6	3.8	7.4	36.7	128.8	141.3	268.2	12.0	3.8	72.5
3079	Miscellaneous plastics products -----	-	70	43	3.8	43.8	3.1	6.3	31.0	108.8	123.5	230.5	10.8	3.1	59.7
31	Leather and leather products -----	E2	8	6	0.5	3.8	0.4	0.8	2.8	6.6	4.4	10.8	0.1	0.8	8.0
32	Stone, clay, and glass products -----	-	46	20	2.1	30.1	1.6	3.3	20.7	63.9	76.2	139.9	3.3	2.4	51.5
329	Miscellaneous nonmetallic mineral products -----	-	15	10	1.1	15.7	0.8	1.6	10.1	36.1	49.2	85.5	2.6	1.1	24.2
33	Primary metal industries ---	-	36	21	3.7	57.3	2.9	6.0	42.3	162.7	346.6	504.1	5.3	7.9	142.8
331	Blast furnace and basic steel products -----	-	6	5	0.6	8.9	0.5	1.1	6.4	19.1	40.0	56.9	0.6	0.3	5.4
335	Nonferrous rolling and drawing -----	-	11	10	1.4	19.7	1.1	2.2	14.4	59.5	146.7	204.3	1.4	2.9	64.1
3357	Nonferrous wire drawing and insulating -	-	6	6	0.9	12.9	0.7	1.5	10.0	39.9	71.5	109.4	1.0	1.4	37.9
336	Nonferrous foundries -----	-	6	2	0.3	2.8	0.2	0.4	2.2	4.9	4.9	9.8	0.3	(NA)	(NA)
34	Fabricated metal products ---	-	103	54	5.3	80.8	4.0	8.2	55.7	202.3	264.9	466.1	10.5	5.3	123.9
341	Metal cans and shipping containers -----	-	14	12	2.0	36.4	1.6	3.5	28.1	107.6	141.1	248.4	4.6	1.4	41.3
344	Fabricated structural metal products -----	-	37	18	1.5	20.7	1.0	2.1	13.7	41.2	84.4	125.7	2.3	1.8	39.6
3441	Fabricated structural metal -----	-	8	3	0.3	4.9	0.2	0.4	2.5	7.6	10.7	18.2	0.2	0.7	15.0
3443	Fabricated plate work (boiler shops) -----	E2	9	5	0.5	6.1	0.3	0.7	4.6	12.9	13.0	25.2	1.2	0.3	4.5
3444	Sheet metal work -----	-	13	7	0.6	8.4	0.4	0.8	5.7	18.5	57.4	77.0	0.9	0.5	15.4
346	Metal forgings and stampings -----	E2	11	5	0.3	3.7	0.2	0.4	2.5	5.5	4.5	9.9	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
34	New Brunswick-Perth Amboy-Sayreville SMSA—Con. Fabricated metal products—Con.														
349	Miscellaneous fabricated metal products -----	-	23	13	1.3	17.5	0.9	1.9	9.7	41.5	29.9	70.6	3.1	1.0	23.3
3496	Miscellaneous fabricated wire products -----	-	9	6	0.6	8.5	0.5	0.9	4.3	19.0	13.7	32.2	(D)	0.3	3.7
35	Machinery, except electrical -	-	152	39	6.4	81.8	4.1	7.8	46.5	139.0	205.9	362.6	6.5	5.2	135.7
354	Metalworking machinery ---	-	30	5	0.5	7.4	0.3	0.7	4.8	16.2	9.2	23.8	1.0	(NA)	(NA)
355	Special industry machinery -----	-	19	8	0.8	12.2	0.5	1.0	6.9	20.4	15.9	35.9	0.3	0.5	10.0
356	General industrial machinery -----	-	22	13	1.2	17.1	0.7	1.4	8.8	35.5	24.7	59.7	0.9	0.7	13.9
357	Office and computing machines -----	-	5	4	0.8	11.2	0.5	0.9	5.2	17.4	32.6	51.9	(D)	(NA)	(NA)
358	Refrigeration and service machinery -----	-	6	5	2.6	26.2	1.7	3.0	15.7	35.2	111.2	164.8	1.8	(NA)	(NA)
36	Electric and electronic equipment -----	-	52	20	3.1	43.3	2.3	4.6	29.7	87.8	65.0	147.4	5.4	2.9	47.6
367	Electronic components and accessories -----	-	27	11	1.0	11.4	0.8	1.5	6.5	22.7	15.6	38.5	1.3	0.7	11.6
38	Instruments and related products -----	-	30	16	3.9	66.6	2.3	4.4	33.5	229.4	168.8	400.5	7.4	(NA)	(NA)
3811	Engineering and scientific instruments --	E1	5	3	0.3	3.5	0.2	0.4	2.4	7.2	4.1	10.7	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries ---	-	54	20	3.3	32.4	2.5	4.9	16.2	104.2	106.2	200.3	5.1	2.2	49.7
3944	Games, toys, and children's vehicles ----	-	8	3	1.0	9.7	0.8	1.9	5.3	20.0	29.4	48.6	0.3	(NA)	(NA)
	New York, N.Y.-N.J., SMSA ---	-	25 831	8 040	796.6	10 313.0	489.0	909.7	4 519.2	19 878.3	21 494.9	41 187.9	162.5	949.2	15 120.8
20	Food and kindred products --	-	891	289	34.1	479.3	23.1	46.7	286.3	1 528.8	2 537.9	4 071.5	89.5	47.9	1 287.2
201	Meat products -----	E1	118	42	3.6	58.4	2.9	6.2	44.2	129.0	331.1	460.6	12.6	4.9	95.0
2011	Meat packing plants -----	E7	27	4	0.3	4.0	0.2	0.5	3.1	7.2	34.6	41.7	(D)	0.3	7.3
2013	Sausages and other prepared meats -----	E1	85	37	3.2	52.7	2.5	5.3	39.6	117.5	283.6	402.2	10.8	4.3	82.2
202	Dairy products -----	-	78	28	3.0	49.0	1.7	3.7	28.0	118.3	363.0	479.9	4.1	4.4	129.8
2024	Ice cream and frozen desserts -----	-	30	9	0.9	15.1	0.5	1.1	8.7	37.9	64.0	101.9	2.0	1.4	43.0
2026	Fluid milk -----	-	30	14	1.8	31.0	1.0	2.2	17.5	76.2	261.5	336.5	1.8	2.8	79.9
203	Preserved fruits and vegetables -----	E2	87	38	2.8	31.0	2.0	4.1	18.8	96.0	113.1	209.0	3.5	2.4	53.4
2033	Canned fruits and vegetables -----	E7	21	8	0.4	3.8	0.3	0.6	2.7	13.3	17.5	30.9	0.6	0.4	8.4
2034	Dehydrated fruits, vegetables, and soups -	-	6	5	0.5	4.3	0.3	0.7	3.1	11.7	11.6	23.2	0.6	(NA)	(NA)
2035	Pickles, sauces, and salad dressings -----	E1	27	13	0.8	9.6	0.6	1.0	5.1	30.6	38.0	68.5	0.9	0.9	22.9
2038	Frozen specialties -----	-	21	10	1.0	12.2	0.7	1.5	7.1	36.6	40.5	77.1	1.2	0.8	12.5
204	Grain mill products -----	-	13	8	0.7	12.8	0.5	1.1	7.1	38.6	54.5	92.5	(D)	0.5	14.8
2045	Blended and prepared flour -----	-	5	4	0.5	10.7	0.3	0.8	5.7	31.5	43.7	74.7	(D)	(NA)	(NA)
205	Bakery products -----	E1	248	56	9.3	125.5	6.1	11.7	70.7	326.9	218.4	545.0	7.3	11.9	230.0
206	Sugar and confectionery products -----	-	60	24	5.1	65.8	3.9	7.5	45.4	281.6	394.9	676.1	31.0	5.6	176.2
2065	Confectionery products --	E1	47	17	2.1	21.0	1.7	3.4	14.5	88.2	63.6	151.5	3.7	(NA)	(NA)
207	Fats and oils -----	-	12	3	0.3	5.8	0.2	0.4	3.6	25.3	104.9	132.3	(D)	1.1	40.2
208	Beverages -----	-	107	34	4.5	70.3	2.3	4.8	32.2	287.6	365.7	653.6	13.2	11.1	390.7
2086	Bottled and canned soft drinks -----	-	58	18	3.1	47.7	1.5	3.0	21.1	151.7	236.8	388.4	9.5	4.3	108.0
2087	Flavoring extracts and sirups, n.e.c. -----	-	33	13	1.0	15.2	0.5	1.2	7.1	114.4	93.3	208.1	2.5	1.3	82.1
209	Miscellaneous foods and kindred products -----	-	168	56	4.7	60.7	3.4	7.2	36.4	225.4	592.4	822.5	12.9	5.9	157.2
2091	Canned and cured seafoods -----	-	18	9	0.5	5.7	0.3	0.7	3.5	18.4	32.6	51.2	0.4	(NA)	(NA)
2098	Macaroni and spaghetti -----	-	34	9	1.0	11.1	0.8	1.9	8.2	37.0	40.8	77.8	1.0	(NA)	(NA)
2099	Food preparations, n.e.c. -----	-	75	21	1.9	25.5	1.4	2.9	14.5	62.5	105.3	168.8	9.8	2.9	73.4
2251	Women's hosiery, except socks -----	E0	7	3	0.4	2.5	0.3	0.6	2.0	4.8	5.0	9.8	(D)	(NA)	(NA)
2253	Knit outerwear mills ----	E2	440	236	15.5	131.4	13.4	24.8	96.1	232.7	328.9	556.4	(D)	18.5	225.4

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSEA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSEA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
	New York, N.Y.-N.J., SMSA—Con.														
2257	Circular knit fabric mills -	-	132	50	4.9	49.6	4.0	8.0	36.8	106.1	297.3	404.8	6.7	8.3	162.9
2258	Warp knit fabric mills -	-	50	23	2.4	24.5	2.1	4.4	16.8	43.5	102.7	147.0	(D)	1.8	35.8
2259	Knitting mills, n.e.c.-----	E3	64	18	1.3	10.3	1.2	2.3	8.0	13.4	23.6	36.8	(D)	(NA)	(NA)
2262	Finishing plants, synthetics-----	E1	40	23	1.6	19.0	1.4	3.1	14.5	33.4	40.8	76.0	3.8	2.4	29.4
2269	Finishing plants, n.e.c.-----	-	23	9	1.0	11.3	0.9	1.8	8.3	24.6	25.3	48.3	(D)	2.2	30.5
2295	Coated fabrics, not rubberized-----	E2	17	10	0.5	5.2	0.3	0.6	2.9	11.0	15.1	25.7	0.6	1.2	24.0
2299	Textile goods, n.e.c.-----	E5	92	22	1.3	10.9	1.1	2.2	8.0	21.1	26.8	47.4	1.7	(NA)	(NA)
23	Apparel and other textile products-----	E2	7 374	2 841	192.1	1 589.9	157.6	274.3	1 052.6	3 609.0	5 066.0	8 599.8	72.1	219.4	2 883.9
232	Men's and boys' furnishings-----	E1	442	182	18.9	147.4	14.5	25.9	91.8	353.6	606.8	931.3	12.2	16.9	257.6
2321	Men's and boys' shirts and nightwear-----	E1	135	59	4.7	40.0	3.7	6.8	20.7	139.9	320.7	428.6	1.2	4.7	77.2
2327	Men's and boys' separate trousers-----	E1	95	31	7.5	52.5	5.2	8.8	34.3	108.5	158.4	269.1	3.5	(NA)	(NA)
2328	Men's and boys' work clothing-----	E3	26	15	0.7	4.7	0.6	1.0	3.5	9.6	12.2	22.0	0.2	(NA)	(NA)
2329	Men's and boys' clothing, n.e.c.-----	E1	93	40	3.5	26.5	3.0	5.8	18.2	49.1	68.0	118.7	5.6	(NA)	(NA)
233	Women's and misses' outerwear-----	E2	3 793	1 674	99.5	807.1	82.0	140.5	532.0	1 935.9	2 586.4	4 490.0	36.1	103.7	1 321.4
2331	Women's and misses' blouses and waists-----	-	333	182	11.3	95.5	9.2	15.6	59.1	318.3	416.4	731.3	5.8	9.4	147.2
2335	Women's and misses' dresses-----	E3	2 277	875	49.8	380.8	41.5	71.2	258.0	797.7	946.6	1 734.9	16.3	57.5	666.5
2337	Women's and misses' suits and coats-----	E1	620	326	19.8	180.7	16.1	28.3	118.6	416.5	612.2	1 024.0	5.5	23.3	344.0
2339	Women's and misses' outerwear, n.e.c.-----	E2	563	291	18.6	150.1	15.1	25.5	96.3	403.4	611.2	999.7	8.4	13.6	163.8
234	Women's and children's undergarments-----	-	317	156	11.6	95.0	9.0	15.6	51.9	231.8	345.2	573.7	2.3	15.6	239.9
2341	Women's and children's underwear-----	E1	255	126	8.2	66.2	6.5	11.2	38.4	166.0	252.7	416.0	1.5	9.1	141.9
2342	Brassieres and allied garments-----	-	62	30	3.4	28.8	2.5	4.4	13.5	65.7	92.5	157.8	0.8	6.5	98.0
235	Hats, caps, and millinery-----	E3	175	51	3.0	22.6	2.5	4.5	16.1	39.5	43.4	82.5	(D)	3.5	35.2
236	Children's outerwear-----	E1	301	158	10.2	78.1	8.5	15.0	53.6	172.6	243.1	414.7	2.2	14.7	205.4
2361	Children's dresses and blouses-----	E1	147	88	5.5	43.2	4.4	7.9	28.5	102.1	140.6	239.7	1.1	6.4	95.8
2363	Children's coats and suits-----	E1	46	19	1.2	10.1	1.0	1.7	7.0	21.2	34.4	55.0	0.4	2.7	36.4
2369	Children's outerwear, n.e.c.-----	E2	108	51	3.5	24.8	3.0	5.4	18.1	49.3	68.1	120.0	0.6	5.6	73.2
238	Miscellaneous apparel and accessories-----	E1	461	190	11.9	96.9	10.2	17.6	65.7	207.2	268.1	469.0	6.2	16.1	205.6
2386	Leather and sheep lined clothing-----	E1	112	34	2.0	18.0	1.7	3.0	13.3	30.2	55.7	85.0	0.3	2.1	27.4
2387	Apparel belts-----	E1	139	53	3.2	25.5	2.7	4.5	16.2	48.6	49.1	96.1	0.9	5.0	61.9
239	Miscellaneous fabricated textile products-----	E2	1 197	318	23.6	206.3	19.7	35.6	140.9	392.1	552.2	944.3	9.7	28.3	335.0
2391	Curtains and draperies-----	-	147	37	2.7	23.4	2.4	4.2	16.7	53.6	105.2	158.4	0.5	3.5	39.1
2392	House furnishings, n.e.c.-----	E1	247	81	7.3	56.5	5.9	11.0	36.4	110.7	207.2	316.9	3.0	7.6	102.4
2393	Textile bags-----	E1	22	5	0.5	4.4	0.4	0.8	2.7	8.6	10.5	19.2	0.1	(NA)	(NA)
2394	Canvas and related products-----	E2	39	6	0.7	5.2	0.6	0.9	3.7	7.8	7.6	15.5	0.2	(NA)	(NA)
2395	Pleating and stitching-----	E2	272	74	4.9	41.4	4.2	7.2	28.3	78.3	82.2	159.5	1.9	6.7	71.6
2396	Automotive and apparel trimmings-----	E3	242	65	3.9	42.9	3.3	6.0	30.3	72.6	79.9	153.5	1.7	5.5	65.0
2397	Schiffli machine embroideries-----	E1	106	17	1.3	14.6	1.1	2.2	10.1	27.7	25.6	53.4	1.3	1.2	21.3
2399	Fabricated textile products, n.e.c.-----	E3	122	33	2.2	17.9	1.9	3.2	12.7	32.8	33.9	68.0	1.2	2.3	21.4
242	Sawmills and planing mills-----	E2	43	8	0.5	4.2	0.4	0.8	3.2	6.2	6.5	12.8	0.3	(NA)	(NA)
2426	Hardwood dimension and flooring-----	E1	28	5	0.3	2.9	0.3	0.5	2.2	4.6	4.4	9.0	0.1	0.5	4.7
243	Millwork, plywood, and structural members-----	E2	161	28	2.2	26.4	1.8	3.5	19.2	46.8	48.8	93.9	1.8	2.8	38.8
2431	Millwork-----	E2	85	14	1.0	13.9	0.9	1.7	9.8	24.9	33.4	56.9	1.2	1.5	21.1
2434	Wood kitchen cabinets-----	E3	71	13	1.1	12.1	0.9	1.8	9.0	20.9	14.7	35.4	(D)	1.3	15.7
244	Wood containers-----	E1	22	5	0.3	2.5	0.3	0.5	1.7	3.6	4.5	8.0	0.1	0.7	6.0

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	New York, N.Y.-N.J., SMSA-- Con.														
249	Miscellaneous wood products -----	E1	142	17	1.7	17.8	1.4	2.6	10.9	34.7	37.7	72.5	1.6	2.5	30.5
2499	Wood products, n.e.c. ---	E1	138	17	1.7	17.6	1.4	2.5	10.7	34.3	37.2	71.7	(D)	(NA)	(NA)
25	Furniture and fixtures -----	E2	729	164	14.2	150.2	11.4	21.7	103.9	274.4	241.1	511.1	11.3	17.1	233.2
251	Household furniture -----	E3	384	64	5.2	48.0	4.4	8.1	33.5	86.2	91.0	176.1	3.6	7.6	87.7
2511	Wood household furniture -----	E4	189	28	2.2	18.3	1.9	3.6	14.0	32.2	28.7	60.1	2.1	2.6	28.6
2512	Upholstered household furniture -----	E5	66	7	0.6	6.2	0.5	1.0	4.6	10.5	7.7	18.1	0.3	1.3	14.8
2514	Metal household furniture -----	E2	61	16	1.6	14.5	1.2	2.2	9.1	28.1	33.6	61.4	0.8	1.6	21.5
2515	Mattresses and bedsprings -----	E3	48	10	0.7	7.3	0.5	0.9	4.6	12.0	17.7	29.6	(D)	1.5	16.1
252	Office furniture -----	E1	38	20	2.6	26.5	2.0	4.0	17.8	53.7	33.3	84.8	4.1	2.5	35.9
2521	Wood office furniture ---	E1	21	8	0.5	4.7	0.4	0.7	3.8	7.7	5.2	12.9	0.2	(NA)	(NA)
2522	Metal office furniture ---	E1	17	12	2.1	21.8	1.6	3.3	14.0	46.0	28.1	71.9	3.9	(NA)	(NA)
254	Partitions and fixtures -----	E1	193	60	4.6	56.7	3.7	7.1	40.3	94.2	76.0	169.2	2.8	5.0	79.0
2541	Wood partitions and fixtures -----	E1	104	33	2.4	32.4	1.9	3.7	23.8	48.1	33.3	81.2	0.6	2.8	46.6
2542	Metal partitions and fixtures -----	E2	89	27	2.2	24.3	1.8	3.4	16.5	46.0	42.7	88.0	2.2	2.1	32.4
259	Miscellaneous furniture and fixtures -----	E1	106	19	1.6	17.8	1.2	2.3	11.4	38.7	38.8	77.4	0.7	1.7	23.6
2591	Drapery hardware and blinds and shades -----	E1	68	8	0.8	8.0	0.6	1.1	5.4	18.4	15.8	34.0	0.4	(NA)	(NA)
2599	Furniture and fixtures, n.e.c. -----	-	38	11	0.8	9.7	0.6	1.2	6.0	20.4	23.1	43.4	0.3	(NA)	(NA)
26	Paper and allied products ---	E1	471	228	22.1	275.6	17.3	34.3	182.6	568.2	662.3	1 227.8	54.9	25.4	407.1
264	Miscellaneous converted paper products -----	E2	291	116	11.4	138.9	8.8	17.4	91.0	299.6	360.2	655.4	33.7	12.3	196.1
2641	Paper coating and glazing -----	E3	36	15	1.0	14.4	0.8	1.6	9.8	24.8	30.2	55.2	0.9	1.1	20.0
2642	Envelopes -----	-	30	21	2.6	31.7	2.1	4.1	21.8	65.1	67.3	131.9	3.5	2.8	45.6
2643	Bags, except textile bags -----	E3	54	23	1.8	23.2	1.3	2.5	13.1	44.6	72.8	116.8	7.8	2.6	37.7
2645	Die-cut paper and board -----	E1	60	21	1.7	20.7	1.4	2.7	14.1	42.3	51.9	93.8	(D)	2.2	38.2
2649	Converted paper products, n.e.c. -----	E3	80	28	3.0	36.0	2.3	4.7	23.0	74.4	89.1	160.5	6.2	1.4	20.2
265	Paperboard containers and boxes -----	E1	168	104	10.0	121.8	7.9	15.6	82.0	226.0	242.1	470.2	12.1	12.3	190.2
2651	Folding paperboard boxes -----	-	51	30	2.8	38.3	2.3	4.6	27.2	73.3	68.1	143.1	2.7	3.2	55.2
2652	Setup paperboard boxes -----	E2	37	28	2.2	19.5	1.9	3.4	13.8	32.9	22.4	55.5	1.2	2.9	34.5
2653	Corrugated and solid fiber boxes -----	E1	58	38	3.8	51.0	2.8	5.6	31.5	95.6	127.4	222.8	7.1	4.9	81.8
2655	Fiber cans, drums, and similar products -----	-	13	5	0.7	8.3	0.6	1.3	6.1	13.4	10.8	24.2	0.7	0.9	10.0
27	Printing and publishing -----	-	4 670	892	120.1	1 855.4	48.4	88.3	679.6	5 437.3	2 959.2	8 411.8	140.7	130.8	3 631.2
2711	Newspapers -----	-	227	53	17.7	329.6	9.8	15.6	181.7	592.6	270.9	863.3	24.4	19.4	437.5
2721	Periodicals -----	-	494	130	27.6	465.7	1.6	3.2	27.9	1 973.7	1 184.1	3 150.8	24.8	25.7	1 067.1
273	Books -----	-	494	137	22.2	327.7	3.5	7.1	39.5	1 465.3	725.9	2 213.1	30.4	23.5	963.2
2731	Book publishing -----	-	363	103	19.4	290.3	1.4	3.1	14.9	1 400.5	677.0	2 095.4	26.9	20.4	902.8
2732	Book printing -----	E2	131	34	2.8	37.4	2.1	3.9	24.5	64.8	48.9	117.7	3.5	3.1	60.4
2741	Miscellaneous publishing -----	-	393	46	9.6	116.1	1.5	2.8	12.6	268.0	103.9	371.1	8.0	9.8	173.7
275	Commercial printing -----	E2	2 243	313	26.5	388.5	19.9	37.0	263.3	724.2	505.1	1 227.1	34.9	31.2	615.8
2751	Commercial printing, letterpress -----	E3	1 220	130	9.7	119.3	7.6	13.7	80.5	228.3	152.1	379.2	12.5	12.7	223.4
2752	Commercial printing, lithographic -----	E1	922	168	14.4	234.3	10.5	20.0	156.5	419.7	326.7	744.3	17.9	16.1	342.8
2753	Engraving and plate printing -----	-	61	12	2.1	30.1	1.6	2.7	22.8	68.2	20.6	89.8	3.8	1.8	35.8
2754	Commercial printing, gravure -----	E3	40	3	0.3	4.7	0.3	0.5	3.6	8.0	5.7	13.7	0.7	0.6	13.8
2761	Manifold business forms -----	-	47	16	1.4	18.5	0.9	1.8	9.9	40.6	30.8	70.8	(D)	1.6	31.8
2771	Greeting card publishing -----	E1	36	9	1.0	9.6	0.5	0.9	3.4	22.0	15.8	37.1	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	New York, N.Y.-N.J., SMSA—Con.														
27	Printing and publishing—Con.														
278	Blankbooks and bookbinding -----	E1	274	82	5.9	62.3	5.1	9.7	47.7	112.7	53.4	165.7	3.9	8.1	113.7
2782	Blankbooks and looseleaf binders -----	E1	63	29	1.9	17.2	1.6	3.1	12.0	36.4	32.0	68.5	1.2	3.1	45.3
2789	Bookbinding and related work -----	E1	211	53	4.0	45.0	3.5	6.6	35.7	76.3	21.4	97.2	2.6	5.0	68.4
279	Printing trade services -----	E1	462	106	8.1	137.4	5.6	10.4	93.6	238.2	69.2	312.7	12.4	9.7	187.5
2791	Typesetting -----	E1	295	69	4.3	67.8	3.2	5.9	49.9	120.1	20.8	139.9	5.5	5.3	104.0
2795	Lithographic platemaking services --	-	101	23	2.0	35.4	1.3	2.5	21.7	58.4	34.1	98.8	3.6	(NA)	(NA)
28	Chemicals and allied products -----	-	685	208	27.3	398.2	16.7	32.7	198.9	1 610.1	1 285.9	2 880.8	128.9	28.5	1 190.9
281	Industrial inorganic chemicals -----	-	21	7	0.8	13.0	0.4	1.0	6.7	50.0	51.8	93.5	20.2	1.0	32.2
2819	Industrial inorganic chemicals, n.e.c. -----	-	14	3	0.5	9.5	0.3	0.6	4.6	30.3	35.0	59.1	(D)	0.5	17.5
283	Drugs -----	-	96	35	9.0	131.6	5.6	10.6	71.9	570.2	338.8	904.4	22.3	8.2	518.5
2834	Pharmaceutical preparations -----	-	65	22	7.8	115.3	4.9	9.1	62.4	517.8	278.1	794.5	16.9	7.2	494.5
284	Soaps, cleaners, and toilet goods -----	-	257	76	10.3	151.2	6.4	12.8	71.0	687.3	493.6	1 184.1	21.3	10.6	436.3
2841	Soap and other detergents -----	-	47	15	2.0	36.3	1.3	2.8	21.6	102.7	166.5	270.0	10.2	1.9	99.3
2842	Polishes and sanitation goods -----	E1	73	22	1.7	21.5	0.9	1.8	8.7	77.6	68.4	146.9	3.0	2.1	63.4
2843	Surface active agents -----	-	14	6	0.4	6.2	0.2	0.4	2.8	17.7	32.6	49.4	0.5	0.6	21.9
2844	Toilet preparations -----	-	123	33	6.2	87.3	4.0	7.8	37.9	489.4	226.0	717.8	7.6	6.0	251.7
2851	Paints and allied products -----	E2	115	34	2.2	28.4	1.3	2.5	14.0	78.4	107.0	184.2	4.3	3.0	64.2
286	Industrial organic chemicals -----	-	41	18	2.5	37.7	1.6	3.2	19.2	134.2	169.3	299.9	11.1	1.9	48.8
2865	Cyclic crudes and intermediates -----	-	11	8	0.8	11.2	0.5	1.0	6.6	33.9	52.7	85.1	(D)	(NA)	(NA)
2869	Industrial organic chemicals, n.e.c. -----	-	27	12	1.7	26.3	1.1	2.2	12.4	99.9	115.2	212.6	9.3	1.4	35.7
289	Miscellaneous chemical products -----	E1	141	35	2.4	33.9	1.3	2.4	14.6	78.2	107.8	185.5	(D)	3.2	81.0
2891	Adhesives and sealants -----	E1	31	7	0.4	6.0	0.3	0.5	2.5	13.0	19.5	32.3	(D)	0.6	17.6
2893	Printing ink -----	E1	33	15	1.1	16.5	0.6	1.2	8.4	37.8	52.9	90.1	(D)	1.2	27.2
2899	Chemical preparations, n.e.c. -----	E1	77	13	0.8	11.4	0.4	0.7	3.7	27.4	35.4	63.1	(D)	1.5	36.3
29	Petroleum and coal products -----	E2	38	11	0.6	9.7	0.3	0.7	5.1	17.1	41.6	59.9	0.9	(NA)	(NA)
295	Paving and roofing materials -----	E2	24	6	0.3	4.6	0.2	0.4	2.7	8.7	25.2	34.1	0.4	0.9	31.9
30	Rubber and miscellaneous plastics products -----	E2	541	193	15.2	160.5	12.2	23.3	105.9	339.3	381.0	714.3	28.1	18.3	280.9
3041	Rubber and plastics hose and belting -----	-	7	5	0.5	5.6	0.3	0.7	3.4	20.4	19.4	38.7	(D)	(NA)	(NA)
3069	Fabricated rubber products, n.e.c. -----	E4	35	7	0.5	6.0	0.4	0.9	4.2	10.0	7.1	17.0	0.3	0.7	10.7
3079	Miscellaneous plastics products -----	E2	496	181	14.2	148.7	11.4	21.7	98.2	308.5	354.1	657.7	27.2	16.5	252.5
31	Leather and leather products -----	E2	497	211	18.6	142.7	16.1	29.1	101.8	282.9	272.1	552.5	6.6	23.7	240.9
314	Footwear, except rubber --	E1	57	34	4.4	32.2	3.9	6.8	25.3	55.9	47.2	103.2	1.9	6.7	66.2
3149	Footwear, except rubber, n.e.c. -----	E5	12	7	0.6	4.5	0.6	0.9	3.7	8.4	6.7	15.1	(D)	(NA)	(NA)
3161	Luggage -----	E1	69	37	3.7	29.5	3.2	5.7	20.4	59.2	52.5	110.5	0.7	3.3	34.5
317	Handbags and other personal leather goods --	E2	247	121	9.0	68.8	7.8	14.5	47.9	145.4	142.5	287.2	3.5	12.0	119.8
3171	Women's handbags and purses -----	E2	177	87	6.8	51.6	6.0	11.2	37.3	112.2	106.0	217.8	2.9	8.9	83.4
3172	Personal leather goods --	E2	70	34	2.2	17.2	1.8	3.3	10.6	33.2	36.4	69.4	0.6	3.0	36.4
3199	Leather goods, n.e.c. ---	E3	66	12	1.0	7.5	0.8	1.4	4.8	13.9	14.4	27.7	0.2	(NA)	(NA)
32	Stone, clay, and glass products -----	E1	379	84	6.6	79.2	5.1	10.1	54.3	172.8	173.1	346.8	13.4	9.2	160.4
322	Glass and glassware, pressed or blown -----	-	14	4	0.5	6.7	0.5	1.0	5.6	19.5	13.8	33.6	0.7	(NA)	(NA)
3231	Products of purchased glass -----	E2	101	25	2.0	22.2	1.6	3.1	15.3	45.7	40.7	85.7	4.4	2.2	31.1
326	Pottery and related products -----	E3	26	6	0.3	2.6	0.3	0.5	1.9	5.6	3.0	8.6	0.3	0.5	6.9

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SIC code	SMSA and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	New York, N.Y.-N.J., SMSA— Con.														
32	Stone, clay, and glass products—Con.														
327	Concrete, gypsum, and plaster products -----	E1	111	23	1.8	25.8	1.3	2.6	17.7	48.5	73.8	123.8	4.4	3.3	75.4
3272	Concrete products, n.e.c. -----	E4	51	6	0.4	5.0	0.3	0.6	3.1	10.7	7.6	18.2	0.6	0.9	16.4
3273	Ready-mixed concrete -----	E1	39	11	0.7	11.4	0.5	0.9	7.7	19.3	27.6	46.9	1.0	1.4	35.8
3275	Gypsum products -----	-	7	4	0.5	7.5	0.4	0.9	5.8	15.0	32.9	49.6	(D)	0.8	17.8
3281	Cut stone and stone products -----	E2	30	2	0.3	2.5	0.1	0.3	1.2	4.5	3.2	7.7	0.1	(NA)	(NA)
329	Miscellaneous nonmetallic mineral products -----	E2	92	22	1.7	18.9	1.3	2.6	12.1	47.9	37.9	85.5	3.5	2.0	30.8
3291	Abrasive products -----	E3	28	11	0.7	8.0	0.5	1.0	5.0	22.6	17.9	40.4	1.5	0.6	9.1
3299	Nonmetallic mineral products, n.e.c. -----	E2	38	5	0.4	4.2	0.3	0.6	2.5	10.2	4.7	15.0	1.0	0.5	6.3
33	Primary metal industries -----	-	221	85	11.3	147.3	8.4	17.0	95.0	343.9	855.4	1 190.3	13.3	13.2	221.0
331	Blast furnace and basic steel products -----	E2	32	11	0.9	11.6	0.7	1.4	7.9	19.7	30.0	50.3	1.0	1.3	23.9
3315	Steel wire and related products -----	E1	16	6	0.4	4.8	0.3	0.6	3.0	9.1	11.6	20.8	(D)	(NA)	(NA)
3341	Secondary nonferrous metals -----	-	27	5	1.2	18.9	0.9	1.6	11.3	57.5	264.5	312.6	3.1	1.3	30.9
335	Nonferrous rolling and drawing -----	-	43	26	4.7	58.8	3.2	6.5	34.7	147.1	478.0	624.3	4.1	5.6	91.3
3356	Nonferrous rolling and drawing, n.e.c. -----	-	21	11	0.8	11.6	0.6	1.2	7.0	42.6	269.3	310.8	0.9	(NA)	(NA)
3357	Nonferrous wire drawing and insulating -----	-	16	12	3.2	39.1	2.1	4.1	22.2	88.6	177.7	266.7	2.9	4.1	68.0
336	Nonferrous foundries -----	E1	58	22	2.1	22.3	1.7	3.2	15.6	40.4	36.0	77.7	1.9	2.7	34.4
3361	Aluminum foundries -----	E3	17	6	0.4	4.3	0.3	0.7	3.3	6.9	6.1	12.9	0.7	(NA)	(NA)
3369	Nonferrous foundries, n.e.c. -----	-	26	12	1.5	15.8	1.1	2.2	10.7	29.8	27.0	58.2	1.1	2.1	27.7
339	Miscellaneous primary metal products -----	E1	40	13	1.2	18.4	1.0	2.5	13.3	46.0	15.1	60.8	1.6	1.1	20.4
3398	Metal heat treating -----	-	24	7	1.0	14.8	0.8	2.0	11.0	38.2	9.0	47.1	1.1	0.9	17.1
3399	Primary metal products, n.e.c. -----	E2	16	6	0.3	3.7	0.2	0.5	2.3	7.8	6.1	13.7	0.5	(NA)	(NA)
34	Fabricated metal products -----	E1	1 498	450	38.3	456.9	28.9	56.9	283.4	909.5	801.0	1 699.0	44.1	42.1	680.9
341	Metal cans and shipping containers -----	E1	18	8	0.8	10.6	0.6	1.3	8.2	25.6	34.6	60.0	(D)	1.7	31.6
3411	Metal cans -----	E1	13	5	0.3	5.7	0.3	0.6	4.8	12.8	16.1	28.6	0.4	(NA)	(NA)
3412	Metal barrels, drums, and pails -----	E1	5	3	0.4	4.9	0.3	0.7	3.4	12.9	18.5	31.4	(D)	(NA)	(NA)
342	Cutlery, hand tools, and hardware -----	-	95	38	4.7	52.3	3.6	6.8	33.5	123.6	73.5	193.1	7.5	4.4	76.4
3421	Cutlery -----	-	5	3	0.5	4.8	0.4	0.8	3.1	13.6	6.9	18.5	(D)	(NA)	(NA)
3429	Hardware, n.e.c. -----	E1	60	21	3.0	35.3	2.3	4.2	21.7	79.9	49.0	127.7	3.4	3.7	63.0
343	Plumbing and heating, except electric -----	E1	41	13	1.2	12.4	0.8	1.4	5.6	26.9	29.8	58.3	1.1	1.3	28.9
3432	Plumbing fittings and brass goods -----	E1	16	6	0.9	7.8	0.6	1.0	3.6	16.0	17.4	35.3	(D)	(NA)	(NA)
344	Fabricated structural metal products -----	E1	441	108	9.9	137.8	6.8	13.4	76.7	257.2	239.3	496.8	13.3	11.9	194.0
3441	Fabricated structural metal -----	E2	98	14	1.2	17.9	0.9	1.8	11.3	40.1	30.7	70.0	1.5	2.6	60.0
3442	Metal doors, sash, and trim -----	E1	87	27	2.7	26.8	2.0	3.9	18.8	43.0	48.3	91.3	1.1	3.4	39.5
3443	Fabricated plate work (boiler shops) -----	-	35	12	2.1	39.6	1.1	2.1	14.7	70.1	70.3	141.5	2.8	0.8	14.0
3444	Sheet metal work -----	E2	113	36	2.3	30.5	1.7	3.3	19.0	59.1	46.3	106.0	2.8	3.1	47.8
3446	Architectural metal work -----	E2	92	14	0.9	12.5	0.7	1.3	7.9	25.8	16.0	41.9	(D)	1.6	24.9
345	Screw machine products, bolts, etc. -----	E1	80	30	2.1	26.1	1.6	3.3	16.9	46.4	42.7	87.9	1.9	2.5	42.5
3451	Screw machine products -----	E2	51	15	0.9	10.7	0.8	1.7	7.8	20.0	14.4	34.3	0.7	1.3	19.8
3452	Bolts, nuts, rivets, and washers -----	-	29	15	1.2	15.4	0.8	1.6	9.1	26.4	28.3	53.6	1.2	1.2	22.7
346	Metal forgings and stampings -----	E1	174	73	5.7	68.3	4.5	9.1	45.5	142.8	140.7	281.1	7.3	5.6	90.4
347	Metal services, n.e.c. -----	E2	315	82	5.4	49.3	4.6	8.8	34.9	88.9	49.6	137.9	3.2	5.5	67.8
3471	Plating and polishing -----	E2	219	62	4.4	39.0	3.8	7.2	27.9	72.1	33.1	104.7	2.6	4.3	52.7
3479	Metal coating and allied services -----	E2	96	20	1.0	10.4	0.9	1.6	7.0	16.8	16.5	33.2	0.7	1.2	15.2
349	Miscellaneous fabricated metal products -----	E1	328	97	8.4	99.7	6.3	12.6	61.9	197.4	190.5	382.9	9.3	8.5	137.7

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expenditures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	New York, N.Y.-N.J., SMSA—Con.														
34	Fabricated metal products—Con.														
349	Miscellaneous fabricated metal products—Con.														
3494	Valves and pipe fittings -	-	29	11	1.8	24.8	1.2	2.5	14.5	58.7	39.7	96.0	3.2	1.9	44.6
3495	Miscellaneous fabricated wire products -	E2	89	25	2.0	20.8	1.6	3.3	14.2	41.6	38.2	79.6	1.7	2.8	35.8
3497	Metal foil and leaf -	E1	8	4	0.3	4.0	0.2	0.4	2.6	9.1	14.6	23.8	0.6	(NA)	(NA)
3498	Fabricated pipe and fittings -	-	21	11	1.1	14.2	0.8	1.5	8.6	24.6	32.5	55.3	1.3	0.6	10.6
3499	Fabricated metal products, n.e.c. -	E2	172	40	2.9	31.4	2.2	4.3	19.0	53.6	59.2	112.3	2.3	2.5	33.2
35	Machinery, except electrical -	E1	1 300	234	24.2	322.3	16.6	32.0	185.2	607.3	466.7	1 067.6	38.2	28.0	471.8
353	Construction and related machinery -	E1	60	13	1.9	29.3	1.1	2.3	15.7	48.3	36.5	83.1	1.8	3.7	55.9
3534	Elevators and moving stairways -	-	11	7	1.3	20.2	0.8	1.6	11.1	26.1	14.6	40.4	(D)	(NA)	(NA)
354	Metalworking machinery -	E1	281	44	3.7	49.2	2.7	5.2	32.1	81.1	55.4	136.6	4.7	3.5	56.7
3544	Special dies, tools, jigs, and fixtures -	E2	201	25	2.0	26.1	1.6	3.2	18.8	42.1	23.1	64.6	2.6	2.0	33.6
3545	Machine tool accessories -	-	38	10	0.9	12.6	0.6	1.1	7.4	24.6	19.4	44.4	1.6	0.8	13.6
355	Special industry machinery -	E1	219	52	4.9	68.8	3.0	5.8	34.7	130.6	95.0	222.0	6.0	5.7	99.9
3551	Food products machinery -	E4	32	8	0.7	9.2	0.4	0.8	4.1	19.3	14.4	33.5	1.1	0.8	15.1
3555	Printing trades machinery -	E1	77	18	1.6	23.3	1.0	2.0	12.9	43.3	36.0	78.4	1.5	1.7	34.1
3559	Special industry machinery, n.e.c. -	E2	59	12	0.9	12.2	0.6	1.3	7.3	23.5	14.5	37.6	0.7	1.0	16.8
356	General industrial machinery -	E1	150	41	3.3	44.8	2.2	4.2	24.6	87.4	69.3	155.6	4.0	3.2	63.3
3561	Pumps and pumping equipment -	-	13	5	0.6	8.5	0.3	0.6	3.7	20.1	16.3	36.6	0.7	0.6	13.6
357	Office and computing machines -	-	45	11	3.2	39.1	2.2	4.4	18.9	85.3	88.9	175.5	4.6	3.3	60.5
358	Refrigeration and service machinery -	E1	93	26	2.8	32.9	1.9	3.4	18.5	66.8	72.2	136.3	2.6	4.0	64.3
3585	Refrigeration and heating equipment -	E2	38	15	1.3	14.8	1.0	1.7	9.7	28.6	34.9	62.5	1.7	2.2	34.5
3589	Service industry machinery, n.e.c. -	E1	43	7	1.0	12.0	0.5	1.0	5.6	27.1	25.5	51.1	(D)	1.2	21.7
3599	Machinery, except electrical, n.e.c. -	E2	436	44	4.3	56.4	3.4	6.6	39.5	104.9	47.2	153.3	14.3	(NA)	(NA)
36	Electric and electronic equipment -	E1	893	303	39.6	475.9	26.4	50.5	243.1	1 098.4	751.4	1 821.2	40.4	49.9	797.8
3613	Switchgear and switchboard apparatus -	E1	21	10	0.8	9.0	0.5	1.0	5.3	15.1	15.2	30.1	(D)	(NA)	(NA)
362	Electrical industrial apparatus -	-	47	14	2.7	37.3	1.3	2.5	12.1	67.2	43.4	110.1	2.5	3.6	58.1
3621	Motors and generators -	-	13	3	0.6	6.7	0.5	0.9	4.6	12.3	9.0	21.5	0.2	1.1	11.5
3622	Industrial controls -	E1	20	5	0.8	9.3	0.5	0.8	3.9	18.0	9.8	27.7	0.8	1.3	22.2
363	Household appliances -	E2	65	22	1.4	15.1	1.1	2.1	9.7	33.1	27.8	61.0	(D)	4.6	73.4
3634	Electric housewares and fans -	E1	18	6	0.4	3.5	0.3	0.6	2.0	10.9	9.3	20.6	0.3	2.7	46.5
364	Electric lighting and wiring equipment -	E1	213	86	10.7	109.6	8.4	16.3	70.0	251.3	213.5	452.6	6.9	13.3	195.5
3644	Noncurrent-carrying wiring devices -	-	11	6	0.5	5.4	0.5	0.9	4.1	19.5	9.5	28.9	0.2	(NA)	(NA)
3645	Residential lighting fixtures -	E1	112	40	2.8	26.9	2.2	4.1	17.2	57.0	55.5	115.0	0.9	4.4	63.3
3646	Commercial lighting fixtures -	E2	24	17	1.3	15.3	1.0	1.9	8.5	33.2	30.8	63.8	0.8	1.4	23.0
3648	Lighting equipment, n.e.c. -	E4	22	10	0.5	5.3	0.4	0.8	3.3	10.3	11.2	21.5	0.4	0.5	8.4
365	Radio and TV receiving equipment -	E1	175	33	3.6	37.1	2.6	5.0	21.2	160.0	112.1	254.0	2.4	3.7	64.1
3651	Radio and TV receiving sets -	-	43	10	1.5	12.9	1.1	2.1	8.7	46.8	60.0	89.5	0.7	2.3	22.8
3652	Phonograph records and prerecorded tape -	E1	132	23	2.1	24.2	1.5	2.9	12.5	113.2	52.1	164.5	1.8	1.4	41.3
367	Electronic components and accessories -	E1	176	51	7.1	76.6	5.2	9.8	45.2	137.3	87.6	221.9	9.4	7.7	102.1
3674	Semiconductors and related devices -	E1	22	10	1.0	13.3	0.7	1.4	8.1	25.1	24.3	48.1	2.2	1.3	14.4
3677	Electronic coils and transformers -	-	8	6	0.7	7.1	0.4	0.8	3.1	11.1	3.8	14.7	0.1	0.5	7.3
3678	Electronic connectors -	-	8	5	1.9	18.1	1.4	2.5	11.3	29.4	14.4	42.5	2.1	(NA)	(NA)
3679	Electronic components, n.e.c. -	E3	128	26	3.1	33.2	2.3	4.4	20.4	62.2	41.5	103.7	4.9	4.0	54.8
369	Miscellaneous electrical equipment and supplies -	E1	93	45	6.7	94.5	3.9	7.3	38.4	235.9	142.4	383.4	12.5	3.9	82.3
3693	X-ray, electromedical, and electrotherapeutic apparatus -	-	27	16	2.9	54.4	1.3	2.4	17.0	155.6	69.8	221.7	5.1	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	E1	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	New York, N.Y.-N.J., SMSA—Con.														
36	Electric and electronic equipment—Con.														
369	Miscellaneous electrical equipment and supplies—Con.														
3699	Electrical equipment and supplies, n.e.c. ----	E1	46	20	1.3	12.1	0.9	1.7	6.9	32.0	28.0	60.2	(D)	(NA)	(NA)
37	Transportation equipment ---	-	177	67	16.4	280.0	13.9	28.5	225.8	659.4	2 007.2	2 669.5	56.2	20.7	587.0
3713	Truck and bus bodies ---	E4	17	8	0.3	4.0	0.3	0.6	2.8	6.6	7.9	14.3	0.1	0.4	5.4
3714	Motor vehicle parts and accessories -----	E2	62	14	1.1	12.4	0.9	1.9	8.3	27.0	30.6	57.2	1.1	1.4	22.1
3728	Aircraft equipment, n.e.c. -----	E3	18	5	0.5	7.3	0.3	0.7	4.3	13.6	5.3	19.6	0.3	(NA)	(NA)
3732	Boat building and repairing -----	E1	14	4	0.3	4.0	0.3	0.5	3.3	6.9	4.2	10.9	0.4	(NA)	(NA)
38	Instruments and related products -----	E1	478	166	20.1	260.3	12.3	24.2	124.2	521.8	426.9	931.4	25.3	22.5	368.4
3811	Engineering and scientific instruments --	-	34	13	2.2	36.6	1.1	2.2	15.4	61.5	28.9	92.4	2.3	2.9	52.9
382	Measuring and controlling devices -----	E1	80	41	3.6	48.2	2.1	4.0	21.2	103.1	64.9	162.1	6.0	2.7	34.9
3825	Instruments to measure electricity -----	-	27	15	1.8	29.1	1.0	1.9	11.8	64.2	43.2	103.2	1.7	1.1	19.3
3832	Optical instruments and lenses -----	-	37	11	0.8	10.5	0.5	1.0	5.1	22.9	9.8	32.4	0.6	0.6	11.5
384	Medical instruments and supplies -----	-	134	36	5.3	66.3	2.9	5.7	29.5	129.3	118.8	244.2	9.7	6.6	121.6
3842	Surgical appliances and supplies -----	E1	53	17	1.8	21.9	1.2	2.3	12.2	51.3	29.9	79.1	3.8	2.2	35.7
3843	Dental equipment and supplies -----	-	49	10	0.9	12.4	0.5	1.0	4.6	35.6	56.8	90.6	(D)	1.0	25.5
3851	Ophthalmic goods -----	E2	58	20	1.9	17.3	1.4	2.8	10.4	32.6	20.2	51.5	1.3	2.3	22.0
3873	Watches, clocks, and watchcases -----	-	61	25	4.6	55.3	3.2	6.4	30.7	105.4	144.0	242.4	1.8	5.4	91.2
39	Miscellaneous manufacturing industries ---	E1	2 656	613	52.7	531.3	40.6	73.7	318.7	1 204.2	1 461.4	2 637.2	38.1	61.1	905.8
391	Jewelry, silverware, and plated ware -----	E1	985	193	14.9	176.2	10.4	18.7	93.4	425.5	811.7	1 217.7	8.5	13.9	258.9
3911	Jewelry, precious metal ---	E1	719	164	12.4	148.2	8.5	15.3	77.7	336.3	539.1	871.8	7.2	11.1	209.7
3914	Silverware and plated ware -----	E2	28	8	0.6	5.6	0.5	0.9	4.2	9.6	8.9	18.2	0.2	0.9	10.9
3915	Jewelers' materials and lapidary work -----	E1	238	21	1.9	22.4	1.4	2.5	11.6	79.6	263.7	327.7	1.2	1.9	38.3
394	Toys and sporting goods ---	-	214	81	11.3	90.0	9.2	16.0	54.5	227.9	189.9	411.1	9.4	13.3	176.0
3944	Games, toys, and children's vehicles -----	-	74	28	6.3	55.1	4.9	8.9	30.5	147.9	102.2	245.9	7.2	5.6	92.9
3949	Sporting and athletic goods, n.e.c. -----	E1	42	16	1.2	9.6	0.9	1.7	6.3	19.2	31.7	50.9	0.9	2.3	33.7
395	Pens, pencils, office and art supplies -----	E1	104	32	3.0	30.8	2.2	4.5	19.5	71.3	69.7	139.5	2.6	3.4	53.8
3951	Pens and mechanical pencils -----	E2	32	14	1.1	9.0	0.9	1.8	6.4	24.3	19.2	43.2	0.8	1.0	15.0
3952	Lead pencils and art goods -----	-	19	8	0.9	9.6	0.6	1.2	5.4	21.3	25.5	45.6	(D)	1.1	16.7
3955	Carbon paper and inked ribbons -----	-	10	6	0.5	6.0	0.4	0.8	4.6	15.3	20.4	36.1	(D)	(NA)	(NA)
396	Costume jewelry and notions -----	E1	423	118	8.9	77.4	7.3	13.3	49.6	158.6	138.3	296.4	6.3	10.9	141.7
3961	Costume jewelry -----	E1	194	51	3.4	28.9	2.7	4.8	17.3	64.0	49.1	111.4	(D)	4.5	57.8
3962	Artificial flowers -----	-	46	14	1.0	8.7	0.9	1.6	5.7	17.9	22.2	39.9	(D)	(NA)	(NA)
3964	Needles, pins, and fasteners -----	E1	95	33	3.1	25.2	2.5	4.7	17.7	55.1	49.0	104.0	3.5	3.6	50.7
399	Miscellaneous manufactures -----	E2	905	183	13.7	147.0	10.6	19.7	94.6	302.6	242.6	544.3	10.9	18.6	262.8
3991	Brooms and brushes ---	E2	34	14	1.2	11.7	0.9	1.6	6.7	29.1	24.2	53.1	1.7	1.8	25.4
3993	Signs and advertising displays -----	E1	263	71	5.3	60.4	4.0	7.6	37.6	113.7	79.2	192.7	4.3	5.4	83.7
3995	Burial caskets -----	-	19	4	0.3	3.1	0.2	0.4	1.9	5.7	10.0	15.7	0.2	(NA)	(NA)
	Newark SMSA -----		4 638	1 733	255.5	3 853.3	145.5	287.4	1 702.3	7 870.8	9 520.5	17 304.3	461.5	271.8	5 608.6
20	Food and kindred products --	-	173	75	10.7	157.7	7.5	14.5	100.0	395.8	887.4	1 279.8	17.8	15.2	379.5
201	Meat products -----	-	23	12	1.2	17.3	1.0	2.1	12.8	46.6	229.9	276.5	3.1	1.5	54.9
2013	Sausages and other prepared meats -----	-	13	6	0.5	7.4	0.3	0.7	5.0	18.4	81.6	100.4	0.7	(NA)	(NA)
202	Dairy products -----	-	18	7	0.7	10.7	0.4	0.8	5.6	25.6	98.7	124.1	2.7	0.8	20.8
2026	Fluid milk -----	-	9	4	0.5	9.0	0.3	0.6	4.6	21.1	81.1	102.2	2.5	0.5	16.1

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Newark SMSA—Con.														
20	Food and kindred products—Con.														
203	Preserved fruits and vegetables -----	E1	18	8	0.7	7.8	0.5	1.1	5.1	18.8	31.0	49.8	1.0	1.1	14.4
2030	Frozen specialties -----	E1	8	5	0.4	4.4	0.4	0.8	3.2	9.7	14.2	23.9	0.5	(NA)	(NA)
205	Bakery products -----	-	44	15	2.7	36.2	1.7	3.3	19.2	79.9	74.4	154.0	4.4	4.2	79.1
206	Sugar and confectionery products -----	-	12	7	0.6	6.4	0.5	1.0	3.9	20.1	51.6	70.7	0.7	0.9	18.8
207	Fats and oils -----	-	9	4	0.4	6.5	0.2	0.4	2.3	32.0	54.2	83.2	(D)	0.6	14.4
208	Beverages -----	-	19	12	3.4	60.1	2.6	4.5	42.5	146.1	237.7	383.1	3.4	5.1	158.1
2080	Bottled and canned soft drinks -----	-	5	4	0.3	3.5	0.1	0.3	1.2	9.9	22.6	32.2	(D)	0.5	15.4
209	Miscellaneous foods and kindred products -----	-	24	7	0.8	11.7	0.6	1.3	8.0	22.1	102.1	126.0	2.1	0.7	19.0
22	Textile mill products -----	E1	62	26	2.2	23.4	1.7	3.4	15.0	44.2	42.1	85.9	(D)	3.0	48.5
2257	Circular knit fabric mills -----	-	9	4	0.6	5.0	0.5	1.0	4.1	9.7	12.4	22.1	0.2	0.4	9.6
2311	Men's and boys' suits and coats -----	-	6	3	0.4	3.3	0.4	0.6	2.9	4.8	3.0	7.6	(Z)	0.6	4.7
232	Men's and boys' furnishings -----	E1	19	13	1.7	12.2	1.4	2.5	9.4	25.0	31.9	55.1	(D)	(NA)	(NA)
233	Women's and misses' outerwear -----	E2	134	72	4.2	29.0	3.9	6.8	24.0	51.6	30.4	81.9	(D)	5.0	32.4
236	Children's outerwear -----	E1	31	19	1.2	8.0	1.0	1.8	6.5	12.8	8.4	21.2	(D)	1.3	9.5
2361	Children's dresses and blouses -----	-	16	11	0.6	4.1	0.5	0.9	3.4	5.9	3.7	9.6	(D)	0.6	4.2
238	Miscellaneous apparel and accessories -----	-	17	13	0.9	7.0	0.8	1.5	5.2	14.8	12.0	26.5	(D)	1.7	15.8
2385	Waterproof outer garments -----	E1	8	7	0.4	2.3	0.3	0.6	1.8	6.5	1.5	7.9	(D)	0.5	4.4
2386	Leather and sheep lined clothing -----	-	4	3	0.3	2.7	0.3	0.5	2.0	4.5	5.1	9.7	(D)	(NA)	(NA)
25	Furniture and fixtures -----	E1	93	36	3.4	34.7	2.6	4.9	23.1	68.4	72.9	140.0	(D)	3.9	66.6
2515	Mattresses and bedsprings -----	E1	11	7	1.0	12.3	0.8	1.5	8.5	23.9	26.8	49.0	(D)	1.6	29.6
26	Paper and allied products -----	-	123	75	7.3	100.7	5.4	11.3	63.7	188.3	331.7	506.5	21.1	6.9	119.2
264	Miscellaneous converted paper products -----	-	59	31	3.3	46.7	2.4	5.0	27.7	90.8	170.8	247.5	14.5	2.4	42.6
2641	Paper coating and glazing -----	E1	11	7	0.7	11.9	0.5	1.0	6.2	22.0	31.3	53.0	0.9	1.0	12.7
2643	Bags, except textile bags -----	-	9	6	0.5	6.0	0.4	0.8	4.5	17.9	42.6	61.2	0.7	(NA)	(NA)
2645	Die-cut paper and board -----	-	13	7	0.7	9.1	0.5	1.1	5.8	22.5	36.8	59.2	(D)	0.4	7.7
2647	Sanitary paper products -----	-	4	3	0.7	11.1	0.4	0.9	5.2	11.1	35.3	32.1	(D)	(NA)	(NA)
2649	Converted paper products, n.e.c. -----	E1	13	6	0.6	7.3	0.5	1.0	5.0	13.7	21.2	34.8	(D)	0.3	8.7
265	Paperboard containers and boxes -----	-	53	37	3.0	39.8	2.3	4.6	25.7	74.8	111.8	186.5	5.1	3.2	50.6
2651	Folding paperboard boxes -----	-	10	7	0.4	5.1	0.4	0.7	3.5	10.9	11.7	22.5	0.5	(NA)	(NA)
2653	Corrugated and solid fiber boxes -----	-	26	16	1.5	23.7	1.1	2.2	14.2	42.0	55.8	97.7	3.9	1.8	30.4
2655	Fiber cans, drums, and similar products -----	-	7	6	0.4	4.0	0.3	0.6	3.0	7.3	11.0	18.4	0.2	0.3	4.3
27	Printing and publishing -----	-	580	109	14.4	177.6	8.3	15.3	95.0	381.1	204.5	578.7	17.9	12.9	233.0
2711	Newspapers -----	-	58	13	3.2	32.8	1.0	1.4	13.2	77.3	40.6	117.9	5.3	3.2	60.8
2721	Periodicals -----	E1	35	5	0.4	4.5	0.2	0.3	1.5	7.9	7.8	15.7	(D)	(NA)	(NA)
273	Books -----	-	37	10	1.4	18.9	0.5	0.9	5.9	43.9	21.7	66.0	1.4	1.2	34.8
2731	Book publishing -----	-	22	5	1.1	14.5	0.2	0.4	2.6	36.8	18.8	56.1	0.3	(NA)	(NA)
2732	Book printing -----	E1	15	5	0.3	4.5	0.2	0.4	3.3	7.1	2.8	9.9	1.2	(NA)	(NA)
2741	Miscellaneous publishing -----	-	20	2	0.4	6.2	0.1	0.2	1.1	12.0	5.8	17.5	(D)	0.6	12.3
275	Commercial printing -----	E1	338	51	4.7	60.7	3.7	6.7	39.7	105.9	73.5	178.7	5.8	4.1	66.2
2751	Commercial printing, letterpress -----	E2	195	22	2.1	23.8	1.8	3.1	16.9	42.9	28.8	71.4	2.0	1.7	27.7
2752	Commercial printing, lithographic -----	E1	135	27	2.5	35.4	1.8	3.4	21.6	60.9	43.8	104.4	3.7	2.0	30.7
278	Blankbooks and bookbinding -----	-	23	13	2.8	32.1	2.0	4.0	21.9	83.7	29.1	107.8	1.5	2.3	31.4
2782	Blankbooks and looseleaf binders -----	-	7	5	1.9	22.3	1.3	2.7	14.2	69.1	24.0	87.8	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Newark SMSA—Con.														
27	Printing and publishing—Con.														
278	Blankbooks and bookbinding—Con.														
2789	Bookbinding and related work -----	-	16	8	0.8	9.8	0.7	1.3	7.7	14.6	5.1	20.1	(D)	(NA)	(NA)
279	Printing trade services -----	-	59	11	1.3	18.8	0.8	1.4	8.8	44.3	21.4	64.3	1.1	0.8	16.6
2791	Typesetting -----	E2	40	5	0.4	4.6	0.3	0.5	3.3	7.3	1.5	8.6	0.7	0.3	4.8
28	Chemicals and allied products -----	-	301	150	37.8	664.0	19.3	39.5	275.7	2 887.1	1 669.8	4 551.1	210.3	38.7	1 824.6
281	Industrial inorganic chemicals -----	-	34	15	1.1	20.0	0.7	1.6	11.4	69.7	177.1	248.0	5.5	1.6	55.9
2819	Industrial inorganic chemicals, n.e.c. -----	-	15	10	0.8	12.9	0.5	1.0	6.9	49.4	145.2	195.9	3.4	1.2	42.7
282	Plastics materials and synthetics -----	-	14	10	2.2	35.9	1.2	2.5	18.9	119.9	148.1	272.7	(D)	2.7	88.3
283	Drugs -----	-	47	32	20.2	380.0	8.6	17.3	121.9	1 791.6	443.2	2 233.2	85.0	20.5	1 155.6
2831	Biological products -----	-	7	5	1.4	22.9	0.5	1.0	6.1	54.7	15.3	68.5	4.9	(NA)	(NA)
2834	Pharmaceutical preparations -----	-	34	23	17.4	325.2	7.3	14.5	97.7	1 564.1	358.8	1 924.3	(D)	(NA)	(NA)
284	Soaps, cleaners, and toilet goods -----	-	50	19	3.7	57.6	1.8	3.6	21.3	262.1	173.9	431.7	13.3	3.3	180.4
2844	Toilet preparations -----	-	16	7	2.3	35.3	0.9	1.8	9.7	148.2	72.7	215.4	6.7	2.3	105.2
2851	Paints and allied products -----	-	46	22	1.7	26.6	1.0	2.0	12.7	82.6	104.7	187.2	1.4	(NA)	(NA)
286	Industrial organic chemicals -----	-	40	25	6.0	104.9	4.2	8.6	66.9	433.0	479.7	907.5	73.8	5.9	172.5
287	Agricultural chemicals -----	-	7	4	0.5	5.2	0.4	0.8	3.5	24.7	42.0	56.2	(D)	(NA)	(NA)
289	Miscellaneous chemical products -----	-	63	23	2.4	33.8	1.5	3.1	19.1	103.5	101.0	204.5	14.7	2.0	72.7
2891	Adhesives and sealants -----	-	11	6	0.6	8.9	0.4	0.9	5.3	36.2	36.9	73.4	(D)	0.3	7.3
2899	Chemical preparations, n.e.c. -----	-	44	13	1.3	18.0	0.8	1.5	9.6	46.3	50.7	96.7	(D)	1.0	48.5
30	Rubber and miscellaneous plastics products -----	-	275	133	12.3	137.6	9.2	19.8	86.7	321.1	305.6	622.4	25.2	11.2	184.7
3041	Rubber and plastics hose and belting -----	-	6	3	0.5	6.3	0.4	0.8	4.4	14.0	9.6	24.4	(D)	(NA)	(NA)
3079	Miscellaneous plastics products -----	-	248	124	11.3	126.7	8.5	18.3	79.2	298.0	285.0	578.0	23.4	9.6	160.3
3111	Leather tanning and finishing -----	-	23	5	0.9	12.2	0.7	1.4	8.6	19.0	44.9	63.5	(D)	1.8	27.5
317	Handbags and other personal leather goods --	E4	8	6	0.8	5.1	0.7	1.3	3.7	9.7	9.1	18.9	(D)	1.2	14.8
32	Stone, clay, and glass products -----	-	126	41	4.5	63.8	3.6	7.2	47.2	133.1	123.0	251.5	10.6	5.7	116.8
322	Glass and glassware, pressed or blown -----	-	11	5	1.1	14.5	0.9	1.8	11.9	33.0	26.8	60.8	2.6	(NA)	(NA)
3231	Products of purchased glass -----	E3	14	5	0.3	3.9	0.2	0.5	2.9	7.3	7.0	14.2	1.0	0.6	11.5
327	Concrete, gypsum, and plaster products -----	E1	45	12	0.7	10.2	0.5	1.0	6.7	18.3	24.2	41.8	5.2	1.4	26.1
3272	Concrete products, n.e.c. -----	E3	17	6	0.3	4.3	0.2	0.5	3.0	5.4	7.8	12.6	(D)	0.8	11.0
3273	Ready-mixed concrete --	-	17	4	0.3	4.2	0.2	0.3	2.6	8.8	11.3	20.0	0.5	0.4	11.0
329	Miscellaneous nonmetallic mineral products -----	-	36	16	2.2	32.8	1.7	3.6	23.8	69.9	61.6	126.6	1.5	2.6	55.6
3291	Abrasive products -----	E1	13	6	0.4	4.1	0.3	0.5	2.4	7.3	8.1	15.3	0.1	(NA)	(NA)
33	Primary metal industries -----	-	116	59	7.5	101.8	5.8	11.8	70.4	223.0	576.3	803.4	12.0	8.3	160.4
331	Blast furnace and basic steel products -----	-	16	9	0.9	15.9	0.7	1.3	10.0	31.5	70.5	99.9	1.0	0.7	16.4
332	Iron and steel foundries -----	-	12	6	1.1	13.9	0.8	1.6	9.2	26.9	15.5	42.4	0.9	1.3	25.0
3341	Secondary nonferrous metals -----	-	9	6	0.6	8.9	0.4	0.8	5.3	10.4	77.4	92.8	3.3	0.8	16.7
335	Nonferrous rolling and drawing -----	-	24	15	3.4	44.4	2.7	5.7	33.2	120.5	365.8	487.2	3.0	3.4	67.3
3357	Nonferrous wire drawing and insulating --	-	11	6	1.4	16.9	1.1	2.2	12.8	56.6	119.4	179.9	1.2	1.5	25.0
3361	Aluminum foundries -----	E4	10	5	0.4	4.8	0.3	0.7	3.6	8.2	6.5	14.7	0.5	0.6	6.3
3369	Nonferrous foundries, n.e.c. -----	-	10	6	0.3	2.8	0.2	0.4	2.1	4.9	5.5	10.5	0.8	0.4	5.9
339	Miscellaneous primary metal products -----	-	26	9	0.6	8.7	0.5	0.9	5.3	16.2	25.9	42.4	0.9	0.7	12.5
3398	Metal heat treating -----	E1	15	4	0.3	3.8	0.2	0.4	2.4	6.2	2.7	8.8	(D)	(NA)	(NA)
3399	Primary metal products, n.e.c. -----	-	11	5	0.4	5.0	0.2	0.5	2.9	10.0	23.3	33.6	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	611	202	22.5	301.0	16.2	32.2	185.6	603.3	488.9	1 084.1	29.0	24.0	440.0

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Newark SMSA—Con.														
34	Fabricated metal products—Con.														
341	Metal cans and shipping containers -----	-	12	8	1.4	22.9	1.0	2.1	15.9	41.9	61.6	103.4	1.2	2.2	44.3
342	Cutlery, hand tools, and hardware -----	-	41	17	2.9	35.2	2.3	4.7	24.4	79.1	47.3	123.9	4.8	3.2	54.5
3423	Hand and edge tools, n.e.c. -----	-	17	8	1.1	14.4	0.8	1.7	9.5	38.9	17.1	55.7	1.5	(NA)	(NA)
344	Fabricated structural metal products -----	E1	147	46	3.5	43.0	2.4	4.7	26.4	78.2	77.9	156.8	5.4	4.2	78.6
3441	Fabricated structural metal -----	E1	31	9	0.9	11.5	0.5	1.1	6.3	21.9	16.4	37.6	2.0	0.8	13.3
3442	Metal doors, sash, and trim -----	-	20	10	0.6	5.6	0.5	0.9	3.6	13.8	15.1	28.8	0.6	0.6	9.3
3443	Fabricated plate work (boiler shops) -----	E1	26	11	0.7	10.9	0.5	1.1	6.8	16.8	15.4	32.9	1.8	0.7	16.5
3444	Sheet metal work -----	E3	49	11	0.8	9.9	0.6	1.2	7.0	17.1	17.7	35.2	0.6	1.5	28.0
345	Screw machine products, bolts, etc. -----	-	71	22	2.6	39.0	1.9	4.0	25.2	73.2	49.5	120.4	3.2	2.9	56.7
3451	Screw machine products -----	E2	56	14	1.0	13.2	0.9	1.9	9.9	21.4	12.4	33.7	1.2	1.0	14.5
3452	Bolts, nuts, rivets, and washers -----	-	15	8	1.6	25.8	1.0	2.1	15.3	51.8	37.1	86.8	2.0	1.8	42.2
346	Metal forgings and stampings -----	-	91	38	3.6	43.9	2.9	5.8	30.9	84.2	66.1	149.7	5.7	2.9	43.2
3469	Metal stampings, n.e.c. -----	-	82	35	3.2	39.1	2.6	5.2	27.8	73.9	58.2	131.5	5.3	(NA)	(NA)
347	Metal services, n.e.c. -----	-	108	19	1.6	18.4	1.1	2.3	11.1	35.6	48.1	82.0	1.2	1.2	17.0
3471	Plating and polishing -----	-	76	13	0.8	9.4	0.7	1.4	6.3	20.5	40.7	59.6	1.0	0.6	8.6
3479	Metal coating and allied services -----	-	32	6	0.8	9.0	0.4	0.9	4.8	15.0	7.4	22.4	0.2	0.6	8.4
349	Miscellaneous fabricated metal products -----	-	128	45	6.2	89.2	4.1	7.6	46.3	191.7	125.5	316.3	7.1	6.8	135.0
3494	Valves and pipe fittings -----	-	17	10	2.6	41.0	1.4	2.6	18.5	95.0	36.6	131.7	1.9	3.2	73.3
3496	Miscellaneous fabricated wire products -----	-	25	8	0.5	6.0	0.4	0.7	3.6	12.7	11.2	23.4	0.4	0.5	8.3
3498	Fabricated pipe and fittings -----	-	8	6	1.1	15.5	0.8	1.2	7.1	28.3	26.0	53.7	0.8	(NA)	(NA)
3499	Fabricated metal products, n.e.c. -----	-	65	15	1.2	14.9	0.9	1.9	9.6	27.7	25.4	54.0	2.0	1.5	27.3
35	Machinery, except electrical -----	-	792	189	21.6	324.5	14.4	28.7	189.8	606.5	459.7	1 054.9	32.7	23.0	494.8
353	Construction and related machinery -----	-	24	11	0.9	12.8	0.6	1.1	5.7	27.9	17.2	46.9	1.1	0.8	45.6
3535	Conveyors and conveying equipment -----	-	9	5	0.3	3.2	0.2	0.4	2.0	7.3	5.3	12.4	0.1	(NA)	(NA)
354	Metalworking machinery -----	E1	245	47	3.9	57.1	2.9	6.1	38.8	96.6	52.6	147.5	5.4	4.3	76.3
3544	Special dies, tools, jigs, and fixtures -----	E1	177	24	2.2	33.6	1.8	3.8	24.8	60.0	21.4	80.5	3.7	2.7	45.2
3545	Machine tool accessories -----	E1	23	5	0.4	6.3	0.3	0.7	4.0	9.9	7.8	16.9	0.9	0.4	6.5
3549	Metalworking machinery, n.e.c. -----	-	18	10	0.8	10.6	0.6	1.1	6.8	16.5	16.7	33.7	0.6	(NA)	(NA)
355	Special industry machinery -----	-	98	40	5.5	82.8	2.9	6.0	38.4	174.9	133.6	307.2	5.4	5.8	109.2
3551	Food products machinery -----	-	12	5	0.4	5.4	0.2	0.4	2.0	12.7	4.9	17.5	(D)	(NA)	(NA)
3555	Printing trades machinery -----	-	18	9	1.6	23.6	0.8	1.7	10.3	74.0	54.3	120.4	2.0	2.2	46.6
3559	Special industry machinery, n.e.c. -----	-	55	20	2.7	43.0	1.5	3.1	20.6	73.6	57.2	133.7	2.6	2.7	41.7
356	General industrial machinery -----	-	91	37	5.7	98.5	4.2	8.5	67.7	180.6	134.4	311.3	6.2	6.8	179.2
357	Office and computing machines -----	-	18	7	1.5	20.1	0.7	0.9	4.9	35.4	48.7	80.1	(D)	0.8	14.8
3573	Electronic computing equipment -----	-	11	4	0.8	8.1	0.5	0.7	3.1	21.7	31.9	52.2	1.5	(NA)	(NA)
358	Refrigeration and service machinery -----	-	24	6	1.6	19.8	1.1	2.1	11.5	33.4	38.5	69.4	(D)	2.1	33.3
359	Miscellaneous machinery, except electrical -----	E2	281	39	2.5	31.9	1.9	3.9	22.0	55.2	26.7	82.0	3.5	2.2	35.0
36	Electric and electronic equipment -----	-	325	142	30.6	425.1	19.6	37.4	210.3	710.2	491.2	1 196.9	37.4	33.8	562.4
361	Electric distributing equipment -----	-	28	14	2.7	36.3	1.9	3.6	21.9	79.7	45.5	124.1	(D)	2.6	48.5
3613	Switchgear and switchboard apparatus -----	-	19	13	2.5	34.7	1.7	3.2	20.7	77.3	43.4	119.6	(D)	2.5	47.4
362	Electrical industrial apparatus -----	E1	34	13	1.3	15.8	0.9	1.8	8.3	27.6	21.7	48.8	3.9	1.2	16.1
3622	Industrial controls -----	E2	16	4	0.6	6.7	0.4	0.7	2.9	8.7	6.3	14.5	(D)	(NA)	(NA)
363	Household appliances -----	-	16	9	4.5	59.1	3.2	6.1	36.1	102.0	52.0	144.7	3.9	3.7	66.1
3634	Electric housewares and fans -----	-	6	5	0.7	7.7	0.6	1.2	6.1	16.9	10.0	26.9	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972		
			E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Newark SMSA—Con.															
36	Electric and electronic equipment—Con.															
364	Electric lighting and wiring equipment-----	-	52	24	4.4	57.1	2.7	5.0	27.0	126.0	100.8	226.3	7.9	8.3	126.3	
3643	Current-carrying wiring devices-----	-	19	8	1.0	10.5	0.8	1.4	6.8	23.9	13.7	37.9	(D)	1.3	22.5	
3645	Residential lighting fixtures-----	-	11	4	0.4	4.8	0.3	0.5	2.3	8.4	9.6	17.7	(D)	0.6	10.2	
3648	Lighting equipment, n.e.c.-----	-	6	4	0.6	7.2	0.3	0.8	3.4	17.4	16.9	34.8	0.5	0.7	11.1	
365	Radio and TV receiving equipment-----	-	20	12	2.0	17.0	1.3	2.5	9.1	42.1	32.4	76.6	(D)	1.7	29.1	
3651	Radio and TV receiving sets-----	-	9	4	0.8	6.0	0.6	1.2	3.8	12.0	14.1	26.5	(D)	(NA)	(NA)	
3652	Phonograph records and prerecorded tape--	-	11	8	1.2	11.0	0.7	1.4	5.3	30.1	18.3	50.1	0.7	(NA)	(NA)	
366	Communication equipment-----	-	39	15	6.4	108.3	3.7	6.7	49.8	170.8	111.1	293.2	6.6	7.2	159.6	
367	Electronic components and accessories-----	E1	110	46	6.8	92.9	4.2	8.2	38.3	133.4	72.0	202.3	8.7	8.3	102.4	
3674	Semiconductors and related devices-----	E3	10	4	2.0	36.7	0.7	1.2	7.7	17.0	7.8	24.7	(D)	(NA)	(NA)	
3676	Electronic resistors-----	-	6	5	0.6	5.9	0.5	0.9	3.8	11.7	5.6	17.1	0.4	(NA)	(NA)	
3679	Electronic components, n.e.c.-----	E1	78	30	3.1	37.2	2.1	4.4	19.1	79.9	44.9	123.0	3.2	2.6	42.0	
369	Miscellaneous electrical equipment and supplies--	-	26	9	2.5	38.6	1.6	3.4	19.7	28.7	55.7	80.9	2.1	0.9	14.2	
3693	X-ray, electromedical, and electrotherapeutic apparatus-----	-	5	3	0.4	5.4	0.2	0.4	2.2	11.6	8.8	17.8	(D)	(NA)	(NA)	
3714	Motor vehicle parts and accessories-----	-	22	7	0.9	14.2	0.4	0.8	4.1	23.5	30.6	53.9	1.1	1.7	19.8	
38	Instruments and related products-----	-	164	70	11.4	149.4	6.4	12.4	66.9	285.4	191.9	476.7	10.2	9.6	185.4	
3811	Engineering and scientific instruments--	-	14	8	1.6	24.1	0.9	1.7	10.8	54.9	37.3	91.3	2.0	(NA)	(NA)	
382	Measuring and controlling devices-----	-	48	22	2.0	27.3	1.2	2.2	12.5	53.7	29.0	82.7	1.9	2.5	37.8	
3825	Instruments to measure electricity-----	-	17	8	1.2	16.1	0.7	1.3	7.5	27.6	15.8	43.5	0.7	1.7	26.0	
384	Medical instruments and supplies-----	-	43	17	4.9	68.1	2.3	4.5	26.8	113.9	80.7	196.2	4.7	3.6	89.3	
3851	Ophthalmic goods-----	E1	16	5	0.9	9.4	0.7	1.5	5.5	17.3	8.6	25.4	(D)	(NA)	(NA)	
3861	Photographic equipment and supplies-----	-	20	9	1.3	12.7	0.9	1.7	7.2	32.0	27.8	59.4	0.9	1.1	17.3	
3873	Watches, clocks, and watchcases-----	-	6	4	0.4	4.4	0.3	0.5	2.4	8.1	4.5	11.9	(D)	(NA)	(NA)	
39	Miscellaneous manufacturing industries---	E1	265	91	7.8	90.2	5.9	11.1	53.4	187.9	188.2	370.1	5.6	10.8	147.7	
391	Jewelry, silverware, and plated ware-----	E1	71	23	2.3	28.8	1.7	3.2	17.0	61.6	74.6	131.7	0.7	2.3	37.7	
3911	Jewelry, precious metal-----	E1	49	19	1.8	23.6	1.3	2.5	13.5	52.7	61.3	109.7	0.4	1.8	30.2	
3915	Jewelers' materials and lapidary work-----	-	13	3	0.3	3.1	0.2	0.4	1.9	6.2	9.4	15.5	0.1	(NA)	(NA)	
394	Toys and sporting goods-----	E1	39	15	1.0	10.8	0.8	1.5	5.8	24.5	21.7	45.5	1.2	2.1	18.5	
3944	Games, toys, and children's vehicles-----	-	16	8	0.7	7.2	0.5	0.9	3.5	16.5	12.4	28.6	0.9	1.6	10.5	
395	Pens, pencils, office and art supplies-----	-	24	5	0.3	3.7	0.3	0.6	2.4	8.6	12.3	20.8	0.4	0.4	6.8	
396	Costume jewelry and notions-----	-	18	8	0.6	5.8	0.5	0.9	4.0	12.3	7.4	19.7	(D)	1.3	17.3	
399	Miscellaneous manufactures-----	-	109	37	3.4	40.1	2.5	4.7	23.5	79.0	70.6	148.7	2.9	4.5	66.1	
3991	Brooms and brushes-----	-	11	6	0.5	5.4	0.3	0.7	3.0	9.9	8.9	18.5	0.3	0.5	7.1	
3993	Signs and advertising displays-----	-	44	17	1.0	10.1	0.8	1.5	6.4	17.0	11.8	28.7	0.8	0.9	11.9	
3999	Manufacturing industries, n.e.c.-----	-	54	14	2.0	24.5	1.4	2.6	14.1	52.0	49.9	101.5	1.9	3.2	47.1	
	Paterson-Clifton-Passaic SMSA-----	-	1 558	636	65.3	856.5	44.1	86.2	475.8	1 647.8	1 601.2	3 244.3	83.3	75.5	1 179.4	
20	Food and kindred products--	-	55	27	2.7	40.8	1.7	3.4	23.6	181.4	211.0	390.7	8.0	3.7	115.3	
203	Preserved fruits and vegetables-----	-	7	3	0.4	5.0	0.3	0.5	2.6	13.8	23.4	37.2	(D)	0.7	11.9	
205	Bakery products-----	-	8	4	1.1	19.4	0.7	1.3	11.0	94.1	50.4	144.3	5.3	1.7	56.0	
2051	Bread, cake, and related products-----	-	8	4	1.1	19.4	0.7	1.3	11.0	94.1	50.4	144.3	5.3	(NA)	(NA)	
208	Beverages-----	-	13	7	0.4	6.6	0.2	0.5	3.6	29.9	43.3	73.4	1.1	0.5	27.1	
22	Textile mill products-----	E1	152	87	7.0	84.7	5.7	11.9	63.2	152.0	199.3	352.7	(D)	9.6	141.7	
2221	Weaving mills, manmade fiber and silk-----	-	12	7	0.7	8.5	0.5	1.0	5.6	14.1	25.4	39.7	0.3	1.4	16.1	

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Paterson-Clifton-Passaic SMSA—Con.														
22	Textile mill products—Con.														
225	Knitting mills -----	E3	33	10	0.8	6.9	0.8	1.5	5.8	11.5	10.1	21.0	(D)	1.8	17.9
226	Textile finishing, except wool -----	E1	52	45	3.6	49.1	3.0	6.5	38.9	83.2	93.7	179.1	(D)	4.1	74.5
2261	Finishing plants, cotton -----	E4	9	7	0.7	7.7	0.6	1.1	6.1	12.2	8.9	21.1	(D)	0.5	6.2
2262	Finishing plants, synthetics -----	-	35	31	2.5	36.8	2.1	4.6	29.7	62.5	50.5	115.2	(D)	3.4	63.0
2269	Finishing plants, n.e.c. -----	-	8	7	0.4	4.6	0.4	0.8	3.0	8.5	34.3	42.8	(D)	(NA)	(NA)
229	Miscellaneous textile goods -----	E3	24	14	1.1	11.8	0.8	1.7	7.8	24.1	36.9	60.7	(D)	1.1	17.5
23	Apparel and other textile products -----	E1	173	106	7.5	55.7	6.6	11.4	43.0	112.7	103.7	216.7	(D)	9.0	90.7
2311	Men's and boys' suits and coats -----	-	8	6	0.6	4.2	0.6	1.1	3.9	5.2	1.5	7.1	(D)	1.2	9.1
233	Women's and misses' outerwear -----	E1	96	66	4.0	28.9	3.6	5.8	22.6	59.5	37.2	95.6	(D)	4.2	37.5
2337	Women's and misses' suits and coats -----	-	43	38	2.3	17.0	2.2	3.5	14.4	34.1	12.2	46.3	(D)	2.5	18.5
236	Children's outerwear -----	-	7	5	0.4	3.5	0.4	0.8	2.8	6.8	6.2	13.0	(D)	0.9	8.0
24	Lumber and wood products -----	E1	35	6	0.3	3.1	0.2	0.4	1.8	5.7	5.9	11.2	(D)	0.5	6.4
25	Furniture and fixtures -----	E1	39	12	1.0	8.7	0.9	1.7	6.2	16.8	19.3	35.8	(D)	1.4	16.4
251	Household furniture -----	-	26	9	0.9	7.4	0.8	1.5	5.3	14.6	17.3	31.6	(D)	1.2	13.9
26	Paper and allied products -----	-	46	22	2.1	28.8	1.6	3.4	18.8	56.2	75.4	131.5	(D)	3.0	44.7
264	Miscellaneous converted paper products -----	E1	29	12	1.0	12.8	0.7	1.5	7.9	27.1	40.7	67.4	0.9	1.6	23.4
2641	Paper coating and glazing -----	-	5	3	0.4	5.4	0.2	0.6	2.9	8.5	14.8	23.0	0.2	(NA)	(NA)
2649	Converted paper products, n.e.c. -----	-	7	5	0.3	3.1	0.2	0.4	2.2	8.3	16.3	24.3	(D)	(NA)	(NA)
2651	Folding paperboard boxes -----	-	4	3	0.5	6.3	0.4	0.8	4.6	10.1	11.4	22.0	0.4	(NA)	(NA)
27	Printing and publishing -----	E2	164	41	3.7	44.4	2.3	4.4	27.7	83.9	44.0	128.2	3.9	3.6	57.4
275	Commercial printing -----	E2	95	24	1.4	17.4	1.1	2.1	12.1	34.9	24.9	59.7	2.1	1.2	20.9
2751	Letterpress -----	E4	48	7	0.6	6.4	0.5	1.0	4.6	11.3	6.5	17.7	(D)	0.6	9.4
2752	Commercial printing, lithographic -----	E1	36	13	0.6	8.8	0.4	0.9	5.9	19.4	16.3	35.6	(D)	0.4	8.6
278	Blankbooks and bookbinding -----	-	15	9	0.7	7.9	0.6	1.2	5.9	14.6	6.7	21.3	1.3	1.0	9.1
2782	Blankbooks and looseleaf binders -----	-	5	4	0.5	5.1	0.4	0.7	3.8	10.0	5.6	15.7	(D)	(NA)	(NA)
2789	Bookbinding and related work -----	-	10	5	0.3	2.8	0.2	0.5	2.0	4.6	1.1	5.7	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	109	47	5.9	90.6	3.5	6.9	43.2	276.5	271.1	547.7	18.6	6.7	172.6
283	Drugs -----	-	10	5	0.5	7.0	0.3	0.6	3.3	35.3	25.8	59.8	(D)	(NA)	(NA)
284	Soaps, cleaners, and toilet goods -----	-	35	13	2.4	36.2	1.2	2.5	12.7	103.3	94.3	195.0	5.4	3.4	92.5
2841	Soap and other detergents -----	-	8	3	0.3	3.7	0.2	0.4	2.3	9.9	19.4	29.0	(D)	(NA)	(NA)
2842	Polishes and sanitation goods -----	-	9	4	0.4	6.0	0.3	0.5	3.3	25.0	24.6	49.2	(D)	0.5	14.8
2851	Paints and allied products -----	E2	14	7	0.4	6.3	0.2	0.5	2.9	19.6	23.3	43.0	1.4	0.4	11.1
286	Industrial organic chemicals -----	-	20	9	1.5	24.5	1.1	2.1	15.3	64.6	87.1	156.0	5.9	2.1	51.7
2869	Industrial organic chemicals, n.e.c. -----	-	9	4	0.8	13.4	0.6	1.2	9.2	40.7	53.8	98.3	3.9	(NA)	(NA)
289	Miscellaneous chemical products -----	-	25	9	0.9	14.9	0.6	1.1	8.3	49.7	34.0	83.5	2.1	0.8	16.1
2899	Chemical preparations, n.e.c. -----	-	13	5	0.3	4.1	0.2	0.3	2.0	18.5	18.8	37.3	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	E1	85	45	5.4	63.1	4.2	8.3	41.3	152.1	169.2	315.6	11.6	6.4	106.4
3079	Miscellaneous plastics products -----	E1	68	36	3.9	46.2	3.0	6.1	32.0	111.8	134.6	241.7	8.9	2.8	44.9
31	Leather and leather products -----	E1	9	4	0.5	2.9	0.4	0.8	2.4	5.7	4.0	9.4	(D)	0.6	3.9
32	Stone, clay, and glass products -----	E2	38	11	0.8	9.3	0.6	1.2	5.9	20.4	12.6	32.8	(D)	1.6	23.1

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Paterson-Clifton-Passaic SMSA—Con.														
32	Stone, clay, and glass products—Con.														
329	Miscellaneous nonmetallic mineral products-----	E2	8	4	0.3	3.6	0.2	0.4	2.2	8.1	5.0	13.0	0.4	0.5	8.6
33	Primary metal industries ----	-	23	13	1.4	20.5	1.1	2.3	14.5	46.0	58.3	103.5	3.0	1.7	37.2
331	Blast furnace and basic steel products-----	-	5	4	0.6	9.1	0.4	0.8	6.2	17.7	26.6	43.8	(D)	0.6	13.2
34	Fabricated metal products---	E1	148	56	4.9	66.1	3.9	7.7	47.9	138.5	138.6	275.9	3.8	5.7	98.8
342	Cutlery, hand tools, and hardware -----	E1	6	5	0.3	2.4	0.2	0.5	1.6	4.3	3.7	7.8	0.1	0.5	5.8
344	Fabricated structural metal products -----	E1	50	15	1.1	14.9	0.8	1.7	10.0	33.8	31.4	62.6	1.1	1.6	31.5
3444	Sheet metal work -----	E1	22	5	0.5	5.9	0.3	0.7	3.8	9.8	6.1	15.6	0.6	(NA)	(NA)
346	Metal forgings and stampings -----	-	11	5	0.5	6.5	0.4	0.7	4.1	10.7	9.0	19.6	0.4	0.4	9.2
347	Metal services, n.e.c. -----	-	23	6	0.3	3.0	0.2	0.4	1.8	4.9	1.9	6.7	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	E1	36	16	1.0	11.0	0.8	1.6	7.7	26.9	22.6	49.3	1.0	0.9	12.2
3499	Fabricated metal products, n.e.c. -----	E1	22	8	0.6	7.4	0.5	1.0	5.4	18.1	13.7	31.9	0.6	0.5	7.5
35	Machinery, except electrical -	-	236	59	5.2	73.9	3.4	6.7	41.0	160.4	110.4	264.6	4.2	6.0	104.4
354	Metalworking machinery----	E3	46	12	0.6	8.8	0.5	1.0	5.9	14.6	5.6	20.4	0.7	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures -----	E3	31	8	0.4	5.5	0.3	0.6	4.0	8.7	3.1	11.8	0.5	0.3	4.2
355	Special industry machinery -----	-	57	19	1.5	20.7	0.9	1.8	11.0	40.0	31.6	70.4	1.3	1.8	34.0
3559	Special industry machinery, n.e.c. -----	E1	17	8	0.5	7.3	0.3	0.6	3.8	13.5	11.4	24.6	0.4	0.6	12.5
356	General industrial machinery -----	-	31	11	1.0	15.1	0.7	1.5	9.2	31.1	32.5	63.3	(D)	0.9	11.5
359	Miscellaneous machinery, except electrical -----	E2	80	8	0.7	8.6	0.5	0.9	5.9	14.2	5.9	20.1	0.6	0.7	11.6
3599	Machinery, except electrical, n.e.c. -----	E2	80	8	0.7	8.6	0.5	0.9	5.9	14.2	5.9	20.1	0.6	(NA)	(NA)
36	Electric and electronic equipment -----	E1	89	39	8.8	124.8	6.2	12.0	79.7	179.9	129.3	316.6	10.5	8.7	108.3
362	Electrical industrial apparatus -----	E7	10	6	0.5	5.1	0.4	0.7	3.7	10.8	7.7	18.6	1.0	(NA)	(NA)
364	Electric lighting and wiring equipment -----	E2	17	9	1.0	9.7	0.7	1.3	5.8	19.2	16.3	35.3	0.6	0.8	11.3
3645	Residential lighting fixtures -----	E3	12	8	0.9	8.9	0.7	1.2	5.4	17.5	13.3	30.6	(D)	0.7	9.4
367	Electronic components and accessories -----	E1	32	11	1.2	13.4	0.9	1.8	7.1	21.5	19.8	40.7	1.6	1.2	13.6
3679	Electronic components, n.e.c. -----	E2	22	6	0.5	5.0	0.4	0.8	3.2	9.1	12.3	21.1	0.8	0.4	4.2
369	Miscellaneous electrical equipment and supplies --	-	10	5	0.6	6.6	0.4	0.9	4.2	15.4	10.3	24.9	(D)	0.6	9.3
38	Instruments and related products -----	E1	31	11	1.4	16.1	0.8	1.7	7.2	31.1	20.5	54.4	(D)	1.5	17.0
39	Miscellaneous manufacturing industries ----	E3	72	23	1.2	11.7	0.9	1.7	7.1	24.7	22.9	47.3	(D)	1.3	15.8
	Philadelphia, Pa.-N.J., SMSA -	-	7 946	2 909	451.8	6 364.7	293.5	569.0	3 510.6	13 429.6	18 223.2	31 507.5	723.4	495.7	9 189.9
20	Food and kindred products --	-	495	227	39.1	525.8	27.6	54.3	331.6	1 452.2	2 857.6	4 300.6	97.8	40.5	919.3
201	Meat products -----	E1	96	46	7.4	104.8	5.7	11.3	72.9	246.2	1 027.4	1 268.6	24.4	6.8	131.9
2013	Sausages and other prepared meats-----	E1	46	25	4.2	61.4	3.1	6.0	41.6	158.8	479.4	636.6	16.2	3.6	76.4
2017	Poultry and egg processing -----	-	5	5	0.9	9.4	0.7	1.5	6.5	23.6	89.4	113.0	2.3	0.5	12.0
202	Dairy products -----	-	50	19	2.4	35.3	1.3	2.7	17.4	89.0	250.9	339.0	5.0	4.1	128.7
2026	Fluid milk -----	-	31	14	1.5	21.3	0.7	1.4	9.1	56.0	169.4	224.7	3.6	2.7	83.3
203	Preserved fruits and vegetables -----	-	53	25	6.1	72.5	4.7	8.9	49.1	223.4	319.7	543.2	11.6	7.3	157.8
2033	Canned fruits and vegetables -----	E1	23	10	1.7	14.4	1.5	3.0	11.7	40.9	90.5	131.4	(D)	1.9	37.2
2038	Frozen specialties -----	-	11	7	1.9	24.0	1.2	2.1	12.7	70.4	58.1	128.7	3.6	2.0	42.0
204	Grain mill products -----	-	21	7	0.9	11.8	0.6	1.2	8.0	57.8	98.4	157.2	2.6	0.9	19.6
205	Bakery products -----	-	101	41	9.4	132.1	6.4	12.8	82.0	341.2	223.8	565.0	12.5	8.7	199.3
2051	Bread, cake, and related products -----	-	84	36	6.5	90.3	3.9	7.6	46.8	205.0	135.5	340.4	(D)	5.6	105.6

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Philadelphia, Pa.-N.J., SMSA—Con.														
20	Food and kindred products—Con.														
205	Bakery products—Con.														
2052	Cookies and crackers ---	-	17	5	2.9	41.8	2.5	5.3	35.2	136.2	88.2	224.6	(D)	3.1	93.6
206	Sugar and confectionery products ---	-	51	26	5.6	66.9	4.3	8.4	46.9	149.8	325.4	473.8	12.5	5.1	117.0
2065	Confectionery products ---	-	39	18	1.6	13.6	1.3	2.4	9.7	33.7	49.7	82.3	1.1	1.6	23.9
207	Fats and oils ---	-	14	10	0.7	10.1	0.4	0.9	5.8	45.1	116.2	160.6	1.8	0.6	29.7
208	Beverages ---	-	48	27	4.2	66.3	2.3	4.5	32.4	200.5	265.9	463.5	19.4	4.9	104.9
2086	Bottled and canned soft drinks ---	-	27	15	2.1	34.1	0.7	1.5	9.1	77.7	147.2	223.4	4.5	2.3	41.8
2087	Flavoring extracts and sirups, n.e.c. ---	E2	13	6	0.5	7.0	0.3	0.7	4.0	24.8	27.1	51.1	(D)	(NA)	(NA)
209	Miscellaneous foods and kindred products ---	-	61	28	2.4	25.9	1.9	3.6	16.9	99.2	230.0	329.7	8.0	2.0	30.4
2099	Food preparations, n.e.c. ---	E1	36	14	1.1	12.2	0.8	1.7	7.3	44.0	85.3	129.3	4.2	0.8	10.0
22	Textile mill products ---	E1	254	138	16.9	149.6	14.5	26.7	110.7	298.4	359.3	650.2	10.6	20.5	251.9
2231	Weaving and finishing mills, wool ---	E4	9	4	0.3	2.1	0.2	0.3	1.5	3.1	1.4	4.5	0.1	0.7	7.7
2241	Narrow fabric mills ---	E1	10	5	0.3	2.7	0.3	0.6	2.1	5.7	5.2	10.8	0.2	0.6	5.8
225	Knitting mills ---	E1	92	56	9.0	75.1	7.8	13.5	55.4	155.6	181.6	332.1	5.3	10.6	122.4
2253	Knit outerwear mills ---	E2	39	32	6.4	52.6	5.5	9.3	37.5	105.7	119.9	221.1	3.3	5.9	70.1
2257	Circular knit fabric mills ---	E6	15	7	0.3	2.8	0.2	0.5	2.1	4.1	3.4	7.7	0.2	1.1	16.3
2269	Finishing plants, n.e.c. ---	-	18	12	0.8	7.1	0.7	1.3	5.1	11.0	17.6	28.3	0.8	0.9	9.7
228	Yarn and thread mills ---	E1	28	23	1.9	15.3	1.7	3.3	12.3	26.9	38.0	64.8	1.5	1.7	16.2
2281	Yarn mills, except wool ---	E4	8	5	0.6	5.3	0.6	1.1	4.4	11.3	15.4	26.3	(D)	(NA)	(NA)
2283	Wool yarn mills ---	-	8	7	0.3	3.1	0.3	0.6	2.4	4.8	6.7	11.4	(D)	0.6	6.1
229	Miscellaneous textile goods ---	E1	51	18	2.2	23.8	1.7	3.4	15.7	45.5	51.5	96.6	2.1	2.5	37.0
23	Apparel and other textile products ---	-	624	325	33.6	275.9	28.7	49.8	201.8	546.8	553.7	1 078.0	8.0	46.1	465.7
2311	Men's and boys' suits and coats ---	-	94	66	12.0	111.6	10.3	18.5	85.1	202.5	171.8	366.2	2.3	17.2	193.5
233	Women's and misses' outerwear ---	E1	201	117	10.2	76.7	8.5	14.0	52.2	190.0	202.8	377.8	3.0	12.5	116.5
2331	Women's and misses' blouses and waists ---	-	20	16	1.5	13.1	1.1	1.6	7.0	50.8	57.9	97.4	0.7	2.3	30.9
2335	Women's and misses' dresses ---	E2	106	51	4.3	30.5	3.8	6.5	22.2	60.1	46.5	105.4	1.1	6.1	47.4
2337	Women's and misses' suits and coats ---	-	33	26	2.0	15.5	1.5	2.5	10.2	39.3	46.2	84.3	0.7	1.7	11.0
2339	Women's and misses' outerwear, n.e.c. ---	-	42	24	2.4	17.6	2.1	3.4	12.8	39.8	52.1	90.7	0.4	2.5	27.2
234	Women's and children's undergarments ---	-	11	8	0.8	5.4	0.7	1.3	3.8	11.9	11.1	23.4	0.1	1.3	10.7
236	Children's outerwear ---	-	31	24	2.5	18.7	2.2	3.8	14.7	38.6	28.5	69.1	0.3	3.2	31.7
2361	Children's dresses and blouses ---	-	19	13	1.5	10.2	1.3	2.3	7.9	27.6	20.9	48.1	0.1	1.9	19.8
2369	Children's outerwear, n.e.c. ---	-	7	7	0.7	5.2	0.5	0.8	4.0	4.2	5.5	12.3	(D)	0.4	3.1
238	Miscellaneous apparel and accessories ---	E1	24	8	0.8	5.7	0.7	1.3	4.6	9.6	11.5	20.9	0.7	1.3	12.3
2389	Apparel and accessories, n.e.c. ---	E1	11	4	0.4	3.2	0.4	0.7	2.6	5.4	7.7	12.8	(D)	0.5	4.2
239	Miscellaneous fabricated textile products ---	E1	165	46	3.6	30.5	3.1	5.5	21.1	53.8	54.8	107.9	1.1	4.7	42.7
2391	Curtains and draperies ---	E1	34	7	0.5	3.6	0.4	0.7	2.4	5.6	6.8	12.2	0.1	0.7	5.7
2392	House furnishings, n.e.c. ---	E2	35	11	0.6	4.3	0.5	1.0	3.0	8.4	11.6	20.0	0.2	0.7	5.5
2395	Pleating and stitching ---	E1	17	3	0.3	2.6	0.3	0.3	1.7	4.8	2.2	7.0	(D)	(NA)	(NA)
2396	Automotive and apparel trimmings ---	-	25	9	0.6	6.3	0.5	1.0	4.6	11.3	13.7	25.2	0.2	0.9	11.6
2399	Fabricated textile products, n.e.c. ---	-	24	11	1.2	11.2	1.0	2.0	7.6	18.8	16.4	34.4	0.4	1.6	12.5
25	Furniture and fixtures ---	-	229	80	8.0	86.6	6.3	12.2	60.7	171.2	170.9	342.3	7.4	8.7	119.3
251	Household furniture ---	E1	113	35	3.2	30.0	2.7	5.1	20.9	53.6	73.2	128.2	1.2	3.2	43.6
2511	Wood household furniture ---	E3	48	7	0.6	4.9	0.5	1.0	3.7	10.1	11.4	20.0	0.4	0.4	4.3
2512	Upholstered household furniture ---	E3	23	5	0.4	3.5	0.3	0.6	2.5	5.4	5.5	10.9	0.2	0.5	5.8

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972		
			E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Philadelphia, Pa.-N.J., SMSA—Con.															
25	Furniture and fixtures—Con.															
251	Household furniture—Con.															
2514	Metal household furniture-----	E1	19	12	1.6	14.5	1.3	2.6	10.4	21.5	33.7	58.5	0.2	1.9	24.8	
2515	Mattresses and bedsprings-----	-	18	9	0.5	5.7	0.4	0.7	3.4	14.3	18.9	32.8	0.2	0.5	8.4	
252	Office furniture-----	-	17	7	1.6	20.9	1.3	2.4	14.1	42.8	32.7	74.6	1.2	1.9	27.1	
254	Partitions and fixtures-----	-	62	26	2.2	25.8	1.7	3.5	19.5	55.7	50.2	105.7	4.7	2.7	37.4	
2541	Wood partitions and fixtures-----	-	40	12	0.6	6.8	0.5	0.9	4.9	12.0	10.6	22.5	(D)	1.0	15.1	
2542	Metal partitions and fixtures-----	-	22	14	1.6	18.9	1.2	2.6	14.6	43.7	39.6	83.2	(D)	1.7	22.3	
259	Miscellaneous furniture and fixtures-----	E1	31	10	0.8	8.8	0.5	1.0	5.4	16.8	12.6	29.2	(D)	0.6	8.2	
2599	Furniture and fixtures, n.e.c.-----	-	22	9	0.7	8.3	0.5	0.9	5.1	15.8	11.6	27.3	0.3	0.5	7.3	
26	Paper and allied products----	-	241	134	17.4	244.3	13.5	26.0	168.9	621.4	793.2	1 409.0	34.3	18.8	385.6	
264	Miscellaneous converted paper products-----	-	112	45	7.4	100.8	5.6	10.0	67.6	372.7	299.7	668.4	12.4	6.0	169.2	
2641	Paper coating and glazing-----	-	25	11	1.6	24.5	1.1	2.4	15.2	84.9	86.9	169.4	2.3	0.9	37.8	
2643	Bags, except textile bags-----	E3	14	6	1.3	16.8	0.9	1.9	10.7	36.6	52.3	88.3	1.8	1.2	24.3	
2649	Converted paper products, n.e.c.-----	-	29	13	0.9	10.1	0.6	1.2	5.9	25.1	29.9	54.8	1.9	0.9	14.3	
265	Paperboard containers and boxes-----	-	107	70	7.0	92.1	5.4	10.7	61.8	159.8	273.3	432.1	8.8	8.3	128.7	
2651	Folding paperboard boxes-----	-	34	21	2.3	29.5	1.9	3.7	20.2	52.1	76.0	126.6	3.7	2.5	35.6	
2652	Setup paperboard boxes-----	-	11	10	0.6	6.2	0.6	1.0	4.7	9.2	8.7	17.7	0.7	0.9	10.2	
2653	Corrugated and solid fiber boxes-----	-	39	26	2.9	43.2	2.1	4.2	26.9	74.4	119.6	194.3	2.9	3.5	59.1	
2654	Sanitary food containers-----	-	8	5	0.5	5.7	0.4	0.7	4.1	9.5	40.3	49.8	0.8	0.7	14.0	
2655	Fiber cans, drums, and similar products-----	-	15	8	0.6	7.5	0.5	1.1	5.9	14.8	28.7	43.7	0.8	0.6	9.8	
27	Printing and publishing-----	-	1 131	254	37.5	487.1	22.0	39.6	265.2	1 076.1	639.9	1 718.1	53.6	37.6	681.4	
2711	Newspapers-----	-	94	29	10.0	128.0	4.0	6.2	50.5	225.7	97.4	323.1	21.6	10.0	163.4	
2721	Periodicals-----	-	53	14	3.4	40.9	0.6	1.2	6.0	248.8	151.8	400.4	1.0	3.1	129.0	
273	Books-----	-	60	18	3.7	49.2	2.1	3.9	24.3	120.6	67.6	186.6	2.5	3.5	61.1	
2731	Book publishing-----	-	29	8	2.6	35.5	1.1	2.0	13.9	95.4	47.9	141.8	1.4	2.6	50.7	
2732	Book printing-----	-	31	10	1.2	13.6	1.0	1.9	10.4	25.1	19.7	44.8	1.2	0.9	10.5	
275	Commercial printing-----	E1	690	111	12.4	169.8	9.5	17.3	118.6	283.1	238.4	525.7	19.8	14.1	226.3	
2751	Commercial printing, letterpress-----	E2	370	31	3.6	39.3	2.7	4.9	25.6	73.5	53.3	126.9	3.4	4.2	65.3	
2752	Commercial printing, lithographic-----	E1	281	69	5.9	88.7	4.5	8.3	60.8	140.6	106.1	251.8	6.2	7.0	114.4	
2753	Engraving and plate printing-----	-	28	6	0.6	7.4	0.5	0.9	5.1	14.4	8.4	22.3	5.0	0.4	7.0	
2754	Commercial printing, gravure-----	-	11	5	2.2	34.4	1.8	3.2	27.2	54.6	70.6	124.8	5.3	2.5	39.6	
2761	Manifold business forms-----	-	31	19	1.4	19.3	1.0	2.2	12.6	52.2	37.3	89.1	2.7	1.2	21.5	
278	Blankbooks and bookbinding-----	-	57	27	2.2	23.1	1.8	3.4	17.3	40.5	14.5	54.8	1.6	2.2	24.7	
2782	Blankbooks and looseleaf binders-----	-	17	11	1.0	10.3	0.8	1.5	7.6	20.8	9.5	30.2	1.2	0.7	9.8	
2789	Bookbinding and related work-----	E1	40	16	1.2	12.7	1.0	1.9	9.7	19.7	4.9	24.6	0.4	1.4	15.0	
279	Printing trade services-----	-	97	26	3.0	42.6	2.3	4.2	31.3	69.2	16.0	84.8	3.6	2.5	39.3	
2791	Typesetting-----	-	74	19	2.3	28.6	1.8	3.3	21.2	49.3	10.0	58.9	2.8	1.9	27.9	
2795	Lithographic platemaking services--	-	15	5	0.6	12.4	0.4	0.8	8.9	17.4	5.4	22.7	0.6	0.3	5.5	
28	Chemicals and allied products-----	-	347	148	29.3	498.0	17.4	34.6	254.4	1 998.6	1 685.3	3 673.3	97.2	30.5	1 240.7	
281	Industrial inorganic chemicals-----	-	33	16	1.8	28.1	1.3	2.6	18.6	104.1	146.3	248.6	18.6	2.2	61.2	
2819	Industrial inorganic chemicals, n.e.c.-----	-	10	7	0.7	11.5	0.5	1.1	7.8	45.3	74.4	119.5	5.9	1.2	31.8	
282	Plastics materials and synthetics-----	-	14	13	3.5	63.2	2.1	4.7	33.8	224.4	338.1	564.7	16.0	4.3	144.0	
283	Drugs-----	-	42	21	12.1	228.4	6.6	12.8	103.8	1 076.6	401.3	1 468.7	27.4	10.8	711.1	
2834	Pharmaceutical preparations-----	-	34	17	11.6	220.8	6.3	12.1	99.3	1 058.5	390.3	1 440.0	26.5	10.5	703.6	

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Philadelphia, Pa.-N.J., SMSA—Con.														
28	Chemicals and allied products—Con.														
284	Soaps, cleaners, and toilet goods-----	-	82	27	2.1	27.7	1.2	2.4	14.2	103.2	142.6	245.7	3.2	2.4	58.1
2841	Soap and other detergents-----	-	23	10	0.8	10.5	0.6	1.1	6.1	34.5	51.9	86.5	1.0	1.0	25.6
2842	Polishes and sanitation goods-----	-	29	8	0.6	7.8	0.4	0.7	3.9	34.4	41.9	75.4	0.7	0.6	16.4
2843	Surface active agents-----	-	11	8	0.4	7.0	0.2	0.5	3.4	21.8	45.5	67.5	1.5	(NA)	(NA)
2851	Paints and allied products-----	-	46	18	2.5	38.8	1.6	3.0	20.4	115.0	139.1	253.7	3.6	3.1	86.8
286	Industrial organic chemicals-----	-	24	12	3.8	64.9	2.4	4.6	37.7	245.0	373.8	623.3	21.7	2.9	86.3
287	Agricultural chemicals-----	-	12	4	0.5	6.2	0.4	0.7	5.2	23.0	28.4	49.6	1.6	0.9	12.1
289	Miscellaneous chemical products-----	-	94	37	3.1	40.6	1.9	3.7	20.7	107.4	115.7	219.0	5.0	3.8	81.0
2891	Adhesives and sealants-----	-	21	11	0.6	8.2	0.4	0.7	4.0	23.8	37.9	61.5	1.0	(NA)	(NA)
2899	Chemical preparations, n.e.c.-----	-	52	14	1.6	19.1	0.9	1.9	10.1	60.2	52.2	108.5	3.4	2.2	53.0
295	Paving and roofing materials-----	-	29	7	0.7	10.4	0.5	1.1	6.8	26.8	48.0	74.3	3.3	0.6	20.7
2951	Paving mixtures and blocks-----	-	24	4	0.3	4.7	0.2	0.5	3.1	13.1	24.1	37.2	1.9	(NA)	(NA)
2952	Asphalt felts and coatings-----	-	5	3	0.4	5.7	0.3	0.6	3.7	13.7	23.9	37.1	1.3	(NA)	(NA)
299	Miscellaneous petroleum and coal products-----	-	24	12	0.9	17.3	0.3	0.6	3.5	35.7	50.2	85.8	1.6	1.0	28.6
30	Rubber and miscellaneous plastics products-----	-	280	118	15.9	211.9	12.5	24.5	150.9	469.9	541.6	993.5	28.1	16.1	346.3
3011	Tires and inner tubes-----	-	5	3	5.2	83.3	4.2	8.2	65.6	208.5	280.7	470.5	7.7	5.3	190.5
3079	Miscellaneous plastics products-----	-	242	100	9.5	112.8	7.2	14.3	73.6	233.6	240.7	475.1	19.4	8.9	126.7
32	Stone, clay, and glass products-----	-	309	114	12.8	170.4	9.9	19.7	119.9	385.4	348.9	736.8	26.1	15.0	290.3
3231	Products of purchased glass-----	-	45	18	1.7	20.8	1.4	2.6	15.4	38.3	44.8	83.2	1.7	1.6	25.8
325	Structural clay products-----	-	13	7	1.8	22.1	1.4	2.9	15.9	41.9	29.0	71.3	(D)	2.2	36.7
327	Concrete, gypsum, and plaster products-----	-	121	40	2.6	35.9	1.9	4.0	24.3	72.2	86.8	159.0	6.9	3.4	77.8
3272	Concrete products, n.e.c.-----	E2	49	18	1.0	12.5	0.8	1.6	8.4	24.7	16.1	41.2	1.2	1.6	33.2
3273	Ready-mixed concrete-----	-	46	15	0.9	13.5	0.7	1.5	9.2	25.0	36.0	60.9	2.5	0.8	20.1
3275	Gypsum products-----	-	5	3	0.3	5.1	0.2	0.5	3.6	11.1	22.1	33.2	1.7	0.5	13.5
329	Miscellaneous nonmetallic mineral products-----	-	97	45	5.7	76.9	4.4	8.3	52.4	201.3	161.9	363.9	14.0	6.0	113.6
3291	Abrasive products-----	-	19	6	0.8	9.7	0.6	1.0	5.4	18.7	11.8	30.8	0.5	1.0	15.4
3293	Gaskets, packing, and sealing devices-----	-	21	11	0.9	11.7	0.6	1.3	7.0	21.0	15.0	36.7	1.0	1.4	20.1
3295	Minerals, ground or treated-----	-	17	7	0.3	4.6	0.3	0.5	3.3	11.3	12.5	23.9	1.5	(NA)	(NA)
3296	Mineral wool-----	-	7	5	2.1	30.6	1.7	3.6	24.4	114.0	73.3	187.7	(D)	1.7	49.9
3297	Nonclay refractories-----	-	6	5	0.6	9.5	0.5	0.9	6.5	19.3	25.4	43.8	(D)	0.6	3.7
33	Primary metal industries-----	-	185	89	24.6	410.4	18.0	34.2	284.7	720.8	1 217.2	1 953.1	42.7	29.5	567.4
331	Blast furnace and basic steel products-----	-	46	26	16.9	310.7	12.1	23.0	217.1	474.1	896.1	1 384.9	29.2	20.4	415.5
3315	Steel wire and related products-----	E1	10	3	0.4	4.9	0.3	0.6	3.8	11.0	20.2	30.5	0.2	(NA)	(NA)
3317	Steel pipe and tubes-----	-	10	8	1.5	20.9	1.1	2.2	15.1	26.4	28.3	56.0	1.2	(NA)	(NA)
332	Iron and steel foundries-----	-	24	15	1.8	21.9	1.4	2.8	16.8	62.5	48.5	111.7	(D)	2.0	33.5
3341	Secondary nonferrous metals-----	E1	21	5	0.5	7.7	0.4	0.7	4.7	18.5	44.1	59.0	2.4	0.9	17.9
335	Nonferrous rolling and drawing-----	-	21	12	2.3	27.4	1.5	3.0	15.6	71.2	153.0	229.3	5.1	3.0	42.3
3357	Nonferrous wire drawing and insulating-----	-	8	5	0.7	8.3	0.5	1.0	5.9	12.4	30.3	48.4	(D)	1.2	11.0
336	Nonferrous foundries-----	-	35	15	2.0	24.8	1.6	3.0	19.1	43.2	30.2	72.6	1.0	2.0	33.1
3361	Aluminum foundries-----	-	18	9	1.2	16.3	1.1	1.9	13.4	31.1	18.0	48.4	0.6	1.3	23.6
3362	Brass, bronze, and copper foundries-----	-	11	4	0.6	7.0	0.4	0.7	4.4	9.9	10.5	20.3	0.3	0.6	7.3
339	Miscellaneous primary metal products-----	-	35	15	1.1	17.4	0.8	1.6	11.1	50.5	40.7	90.0	2.9	(NA)	(NA)
3398	Metal heat treating-----	-	19	9	0.5	6.0	0.4	0.7	4.0	11.3	3.8	15.1	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Philadelphia, Pa.-N.J., SMSA—Con.														
33	Primary metal industries—Con.														
339	Miscellaneous primary metal products—Con.														
3399	Primary metal products, n.e.c. -----	-	16	6	0.7	11.3	0.5	0.9	7.1	39.2	36.9	74.9	(D)	0.4	13.1
34	Fabricated metal products ---	-	933	338	37.0	508.0	28.3	56.0	352.2	1 043.9	1 035.5	2 081.6	53.0	43.0	723.4
341	Metal cans and shipping containers -----	-	18	16	3.1	49.0	2.7	5.3	41.0	134.9	205.6	335.6	3.7	3.7	80.2
3411	Metal cans -----	-	13	12	2.6	42.7	2.3	4.6	36.6	119.8	180.7	296.1	(D)	(NA)	(NA)
3412	Metal barrels, drums, and pails -----	-	5	4	0.5	6.3	0.4	0.7	4.4	15.1	24.9	39.5	(D)	(NA)	(NA)
3429	Hardware, n.e.c. -----	-	32	13	1.1	12.4	0.8	1.6	8.3	29.8	28.5	58.9	0.8	1.4	21.9
343	Plumbing and heating, except electric -----	E1	26	9	1.0	13.2	0.7	1.3	7.2	25.2	27.7	52.9	1.2	1.8	23.7
3433	Heating equipment, except electric -----	-	17	7	0.9	11.1	0.5	1.0	5.6	21.6	24.9	46.6	1.0	1.5	21.0
344	Fabricated structural metal products -----	E1	361	121	9.6	123.9	6.9	13.4	76.5	243.6	276.1	520.9	11.0	11.2	179.1
3441	Fabricated structural metal -----	-	68	25	1.8	25.0	1.3	2.6	16.1	46.6	61.4	109.2	2.8	2.8	45.9
3442	Metal doors, sash, and trim -----	E1	47	15	1.0	9.4	0.8	1.5	5.8	18.4	28.1	45.9	1.1	1.3	14.6
3443	Fabricated plate work (boiler shops) -----	E1	55	32	3.0	44.5	2.1	3.9	25.1	95.1	92.9	189.9	3.1	2.9	61.2
3444	Sheet metal work -----	-	112	32	3.0	34.0	2.2	4.1	22.5	63.0	70.7	132.7	3.5	3.0	38.3
3446	Architectural metal work -----	E1	66	11	0.6	8.7	0.5	1.0	5.4	14.8	12.4	27.2	0.3	(NA)	(NA)
345	Screw machine products, bolts, etc. -----	-	68	28	3.8	49.0	3.0	6.0	37.5	108.3	70.3	176.9	12.9	3.7	65.3
3451	Screw machine products -----	-	42	11	0.7	8.6	0.6	1.1	6.3	18.0	11.3	29.0	(D)	0.5	7.4
3452	Bolts, nuts, rivets, and washers -----	-	26	17	3.0	40.4	2.4	4.9	31.2	90.3	59.0	147.9	(D)	3.2	57.9
346	Metal forgings and stampings -----	-	81	35	7.1	119.9	5.6	11.3	89.6	224.0	211.3	438.7	7.1	9.6	170.8
3469	Metal stampings, n.e.c. ---	-	65	22	1.8	22.8	1.4	2.9	15.8	42.3	62.0	103.7	2.8	2.2	31.1
347	Metal services, n.e.c. -----	-	128	25	1.8	21.6	1.4	2.9	14.4	40.1	35.9	76.0	2.9	2.0	29.9
3471	Plating and polishing ---	E1	71	11	0.8	8.9	0.6	1.3	5.7	14.4	8.1	22.3	0.9	1.1	13.5
3479	Metal coating and allied services -----	-	57	14	1.0	12.7	0.7	1.6	8.7	25.7	27.8	53.7	2.0	0.9	16.4
349	Miscellaneous fabricated metal products -----	-	189	79	7.9	99.5	6.1	11.7	63.5	200.2	155.4	354.3	11.9	8.8	106.6
3494	Valves and pipe fittings ---	-	29	18	2.8	39.8	1.9	3.5	22.1	82.8	53.4	136.7	4.5	3.1	51.8
3495	Wire springs -----	-	9	6	0.5	5.2	0.4	0.8	3.8	8.5	9.9	18.3	0.7	(NA)	(NA)
3496	Miscellaneous fabricated wire products -----	E1	37	13	1.0	10.3	0.8	1.7	7.0	19.5	17.5	36.8	1.5	0.9	11.6
3498	Fabricated pipe and fittings -----	-	25	12	0.9	12.3	0.7	1.3	8.2	26.0	18.1	43.7	(D)	0.3	4.5
3499	Fabricated metal products, n.e.c. -----	-	84	27	2.2	25.1	1.8	3.6	18.0	49.8	44.7	93.5	2.3	1.6	21.5
35	Machinery, except electrical -	-	1 183	308	44.8	661.8	27.9	59.4	363.7	1 176.1	945.2	2 093.8	58.0	45.3	921.9
3535	Conveyors and conveying equipment --	-	19	10	1.5	22.2	0.9	1.6	10.6	48.3	35.3	81.5	0.7	1.1	18.2
354	Metalworking machinery ---	E1	246	44	4.3	70.3	3.3	7.2	50.9	122.5	55.9	175.9	6.3	3.6	61.2
3542	Machine tools, metal forming types -----	-	12	4	0.6	10.5	0.4	0.9	6.4	22.1	15.0	36.4	1.2	0.6	7.1
3544	Special dies, tools, jigs, and fixtures -----	E1	183	36	3.3	53.6	2.6	5.6	40.5	89.2	34.7	122.0	4.7	2.5	47.4
355	Special industry machinery -----	-	140	50	5.3	78.8	2.9	6.1	38.5	135.5	120.7	254.6	5.0	5.8	95.3
3551	Food products machinery -----	-	16	7	0.5	7.3	0.3	0.6	3.5	13.9	9.8	24.0	0.3	0.6	9.6
3554	Paper industries machinery -----	-	15	7	1.3	20.5	0.7	1.5	10.7	35.2	24.1	58.7	1.4	1.0	19.1
3559	Special industry machinery, n.e.c. -----	-	63	21	2.4	35.8	1.4	2.6	17.0	64.6	68.1	129.6	2.3	1.7	30.0
356	General industrial machinery -----	-	163	66	9.2	138.1	6.0	12.5	84.9	283.4	203.2	481.0	12.4	9.1	155.8
3564	Blowers and fans -----	-	14	5	0.5	5.7	0.3	0.6	3.3	13.9	8.3	21.8	(D)	0.5	7.4
3567	Industrial furnaces and ovens -----	-	26	14	1.2	18.0	0.6	1.2	7.8	35.4	34.7	69.1	1.5	1.1	18.6
357	Office and computing machines -----	-	49	29	7.1	93.9	3.1	5.9	32.0	171.1	120.7	283.2	13.7	4.0	107.8
3573	Electronic computing equipment -----	-	39	24	6.1	79.7	2.6	5.0	26.2	143.3	104.5	239.8	12.6	3.6	99.0
358	Refrigeration and service machinery -----	-	58	28	3.2	36.2	2.1	8.1	19.4	78.5	74.7	151.4	1.9	(NA)	(NA)
3585	Refrigeration and heating equipment -----	E1	28	14	1.8	17.0	1.2	6.3	9.7	39.6	38.7	76.7	1.0	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSEA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSEA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Philadelphia, Pa.-N.J., SMSA—Con.														
35	Machinery, except electrical—Con.														
358	Refrigeration and service machinery—Con.														
3589	Service industry machinery, n.e.c.-----	-	23	10	0.6	7.9	0.4	0.7	3.6	15.0	15.3	30.3	0.4	0.8	11.7
359	Miscellaneous machinery, except electrical-----	E1	460	64	5.3	69.0	4.2	8.2	48.0	124.5	69.6	192.3	7.6	5.4	90.7
36	Electric and electronic equipment-----	-	443	181	36.5	498.0	25.5	48.2	299.0	956.7	889.8	1 828.9	39.7	48.6	875.2
361	Electric distributing equipment-----	-	31	13	7.7	117.9	5.1	9.4	73.2	230.6	112.0	340.8	5.7	(NA)	(NA)
3613	Switchgear and switchboard apparatus-----	-	22	10	7.3	114.0	4.8	8.8	70.4	222.7	104.9	325.9	5.5	(NA)	(NA)
362	Electrical industrial apparatus-----	-	45	19	2.5	29.3	1.9	3.7	17.2	65.5	39.9	101.1	2.5	2.2	31.5
3621	Motors and generators-----	-	11	9	1.5	15.9	1.2	2.4	10.0	32.9	18.1	48.8	0.9	1.1	13.5
3622	Industrial controls-----	E1	23	6	0.6	6.8	0.4	0.9	4.1	16.9	9.7	24.7	1.2	0.3	4.0
364	Electric lighting and wiring equipment-----	-	92	40	5.7	61.3	4.0	7.2	33.4	144.6	180.0	322.5	3.9	6.6	112.5
3643	Current-carrying wiring devices-----	E1	16	8	1.0	9.5	0.8	1.5	6.7	23.2	19.2	42.1	0.3	1.3	14.1
3644	Noncurrent-carrying wiring devices-----	E1	10	7	0.8	10.7	0.7	1.2	6.9	24.0	30.8	53.7	0.6	0.4	9.0
3645	Residential lighting fixtures-----	-	41	16	2.4	25.9	1.5	2.4	10.3	60.9	53.1	114.6	0.9	2.8	54.0
3646	Commercial lighting fixtures-----	-	11	5	1.3	13.1	1.0	1.7	8.4	32.9	69.5	101.2	1.5	1.9	33.4
3652	Phonograph records and prerecorded tape-----	-	21	6	1.8	18.6	1.5	3.5	15.1	29.1	40.0	68.3	2.2	1.6	17.0
366	Communication equipment-----	-	72	34	9.4	164.4	5.7	10.7	91.5	272.7	194.2	454.0	11.4	17.3	310.6
367	Electronic components and accessories-----	-	134	48	6.7	76.6	5.1	9.9	49.2	156.4	251.8	411.2	10.2	4.6	56.7
3674	Semiconductors and related devices-----	-	14	5	0.8	10.6	0.4	1.0	5.3	22.2	15.1	37.7	(D)	0.7	8.4
3676	Electronic resistors-----	-	7	4	0.8	7.7	0.7	1.3	5.7	15.3	5.3	21.3	0.7	1.2	13.8
3677	Electronic coils and transformers-----	-	5	3	0.7	5.9	0.6	1.2	4.3	9.7	2.9	12.0	0.1	(NA)	(NA)
3678	Electronic connectors-----	-	5	3	0.3	2.7	0.2	0.4	1.8	5.9	4.2	10.3	(D)	(NA)	(NA)
3679	Electronic components, n.e.c.-----	-	96	29	3.8	46.7	3.0	5.6	30.3	98.7	220.6	321.4	5.0	2.0	25.9
369	Miscellaneous electrical equipment and supplies-----	-	35	17	2.1	24.5	1.6	3.1	16.4	42.8	48.5	92.5	1.6	2.2	44.8
3694	Engine electrical equipment-----	E1	13	7	0.8	5.5	0.6	1.3	3.4	11.5	15.7	26.0	0.4	0.5	5.0
37	Transportation equipment-----	-	134	46	23.3	412.5	13.3	28.4	202.7	628.1	510.1	1 154.6	34.1	22.8	521.7
371	Motor vehicles and equipment-----	-	74	24	6.5	100.1	5.3	11.0	78.0	161.1	268.3	427.5	8.0	6.2	151.0
3724	Aircraft engines and engine parts-----	-	8	4	0.4	6.3	0.3	0.6	3.8	11.6	6.8	18.1	0.6	0.3	3.7
3728	Aircraft equipment, n.e.c.-----	E1	8	3	0.4	6.8	0.3	0.7	5.0	11.2	3.7	14.5	0.4	0.5	8.0
38	Instruments and related products-----	-	263	96	19.5	280.0	11.1	22.9	129.3	595.9	277.6	853.3	23.3	17.8	317.4
3811	Engineering and scientific instruments-----	E1	29	11	1.2	15.5	0.7	1.7	8.3	34.1	17.8	50.7	(D)	1.5	20.9
382	Measuring and controlling devices-----	-	88	40	13.8	212.3	7.3	15.3	92.5	432.8	172.1	589.9	13.6	12.4	226.0
3823	Process control instruments-----	-	22	15	9.9	160.8	4.6	9.8	60.7	323.7	116.7	431.2	10.1	8.8	168.0
3832	Optical instruments and lenses-----	-	20	9	1.0	13.3	0.7	1.5	7.3	38.5	19.0	56.7	(D)	0.6	15.5
384	Medical instruments and supplies-----	E1	88	26	2.5	27.1	1.7	3.2	15.2	56.1	34.4	87.8	2.0	2.6	42.6
3841	Surgical and medical instruments-----	E2	27	9	0.7	8.5	0.4	0.8	4.0	18.7	10.4	28.4	0.8	0.6	7.6
3843	Dental equipment and supplies-----	-	25	9	0.8	9.4	0.6	1.0	6.0	18.5	9.9	27.0	0.7	0.9	17.6
3861	Photographic equipment and supplies-----	E2	21	5	0.5	8.0	0.3	0.7	4.0	27.7	29.9	57.7	1.4	0.5	8.4
3873	Watches, clocks, and watchcases-----	-	7	4	0.3	2.8	0.2	0.5	1.5	4.6	3.5	7.6	0.3	(NA)	(NA)
39	Miscellaneous manufacturing industries-----	-	347	91	9.8	127.5	7.6	13.7	73.2	288.6	327.5	616.1	18.8	9.7	204.7
391	Jewelry, silverware, and plated ware-----	E1	58	8	0.7	7.4	0.6	1.1	4.7	17.5	28.1	45.3	0.3	0.5	9.8
3944	Games, toys, and children's vehicles-----	-	16	5	0.6	6.3	0.5	0.8	3.1	17.7	32.0	49.0	(D)	(NA)	(NA)
3949	Sporting and athletic goods, n.e.c.-----	-	23	9	0.7	7.4	0.6	1.2	5.4	17.1	18.4	34.7	(D)	1.2	19.6
396	Costume jewelry and notions-----	-	15	6	0.5	4.0	0.5	0.8	2.7	7.2	6.1	13.3	(D)	0.4	4.4
399	Miscellaneous manufactures-----	-	194	55	6.2	93.4	4.6	8.3	51.5	211.6	222.7	436.2	14.3	5.3	140.3

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
39	Philadelphia, Pa.-N.J., SMSA—Con.														
399	Miscellaneous manufacturing industries—Con.														
3991	Miscellaneous manufactures—Con.														
3999	Brooms and brushes ---	-	11	5	0.4	4.3	0.2	0.4	1.7	5.3	5.8	10.5	0.1	(NA)	(NA)
	Manufacturing industries, n.e.c. -----	-	97	24	3.8	62.1	2.7	4.6	30.8	144.8	138.6	283.6	(D)	2.9	77.5
	Trenton SMSA -----	-	488	185	35.9	538.4	20.7	41.1	262.7	885.4	743.4	1 626.2	39.7	35.6	608.0
20	Food and kindred products --	-	29	12	1.0	12.9	0.6	1.3	7.4	55.5	67.9	122.5	2.0	1.1	32.2
205	Bakery products -----	E1	9	3	0.3	1.9	0.1	0.1	0.6	3.1	2.1	5.1	(Z)	0.3	3.5
2051	Bread, cake, and related products -----	E1	9	3	0.3	1.9	0.1	0.1	0.6	3.1	2.1	5.1	(Z)	(NA)	(NA)
208	Beverages -----	-	6	5	0.5	7.9	0.4	0.9	5.3	45.7	50.3	95.2	(D)	0.4	23.0
23	Apparel and other textile products -----	E1	14	8	0.6	5.2	0.5	0.9	3.8	14.2	11.8	25.9	(D)	1.0	12.2
26	Paper and allied products ---	-	11	5	0.6	7.7	0.4	0.8	4.9	14.5	15.9	30.4	1.6	0.8	11.1
27	Printing and publishing ----	E1	106	23	2.3	29.3	1.2	2.2	15.3	69.1	29.3	97.8	2.8	1.8	36.9
2711	Newspapers -----	-	14	3	0.9	10.0	0.3	0.5	3.7	19.6	6.7	26.3	(D)	(NA)	(NA)
273	Books -----	E1	16	4	0.4	4.5	0.2	0.4	2.6	11.3	5.1	16.2	0.6	(NA)	(NA)
2741	Miscellaneous publishing ----	-	11	4	0.4	6.0	0.2	0.4	3.6	21.0	4.2	25.1	(D)	(NA)	(NA)
275	Commercial printing -----	E2	42	6	0.4	5.3	0.3	0.6	3.5	10.4	7.4	17.5	0.9	0.5	7.8
2752	Commercial printing, lithographic -----	E2	21	4	0.3	3.6	0.2	0.4	2.3	7.9	5.6	13.2	0.7	0.4	6.6
28	Chemicals and allied products -----	-	22	14	1.7	22.3	0.9	1.7	9.5	75.1	69.0	139.6	(D)	1.5	64.5
283	Drugs -----	-	5	5	0.9	12.7	0.5	0.9	5.5	59.3	27.3	84.9	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	29	19	3.2	43.5	2.4	4.7	28.0	68.5	91.2	160.7	2.0	4.1	60.3
3041	Rubber and plastics hose and belting -----	-	6	5	1.5	23.1	1.0	1.9	13.3	29.7	43.2	72.4	0.5	1.6	23.3
3079	Miscellaneous plastics products -----	-	16	7	0.7	9.3	0.5	1.1	6.1	17.3	25.7	44.2	1.2	1.6	25.6
32	Stone, clay, and glass products -----	-	40	19	2.3	27.5	1.8	3.7	20.1	54.5	37.9	92.9	2.1	2.3	45.1
35	Machinery, except electrical -	-	64	16	5.4	71.3	3.8	7.9	46.4	155.5	169.1	332.6	4.5	5.3	78.6
354	Metalworking machinery ---	E2	28	4	0.3	3.7	0.2	0.4	2.7	5.9	1.8	7.7	0.2	(NA)	(NA)
358	Refrigeration and service machinery -----	-	5	4	2.3	28.4	1.7	3.2	19.4	52.1	60.3	111.3	(D)	2.4	35.5
3585	Refrigeration and heating equipment -----	-	5	4	2.3	28.4	1.7	3.2	19.4	52.1	60.3	111.3	(D)	2.4	35.5
36	Electric and electronic equipment -----	-	21	13	3.9	50.9	3.1	5.8	35.6	101.6	63.1	155.8	5.1	5.7	88.6
364	Electric lighting and wiring equipment -----	-	5	5	1.9	19.5	1.6	3.1	14.3	40.0	27.4	61.1	(D)	3.0	34.0
38	Instruments and related products -----	-	21	7	1.0	12.8	0.3	0.5	3.7	30.4	14.2	45.1	1.1	0.3	12.3
39	Miscellaneous manufacturing industries ---	-	29	9	0.7	7.7	0.5	1.1	5.3	27.6	21.5	50.2	0.5	0.5	23.6
	Vineland-Millville-Bridgeton SMSA -----	-	254	104	18.9	223.2	15.5	29.3	167.8	500.8	432.0	927.1	37.1	22.5	313.6
20	Food and kindred products --	-	42	19	2.3	24.4	1.9	3.3	18.1	91.8	121.9	213.0	6.1	3.4	46.5
203	Preserved fruits and vegetables -----	-	14	8	1.6	18.0	1.3	2.2	13.8	75.7	101.4	176.6	4.8	2.6	36.1
209	Miscellaneous foods and kindred products -----	-	15	7	0.4	3.2	0.3	0.5	2.1	5.8	14.5	20.3	1.0	(NA)	(NA)
23	Apparel and other textile products -----	-	26	17	2.3	16.6	2.1	3.7	14.3	26.1	18.5	44.0	(D)	3.5	24.7
2311	Men's and boys' suits and coats -----	-	8	7	1.5	11.5	1.4	2.5	10.1	19.7	11.4	29.3	(D)	1.5	8.3
233	Women's and misses' outerwear -----	-	8	6	0.5	3.2	0.5	0.8	2.8	4.2	1.4	5.6	(D)	0.7	5.2
27	Printing and publishing ----	-	25	5	0.5	6.0	0.3	0.6	3.8	10.3	7.7	17.9	0.4	0.7	10.6
28	Chemicals and allied products -----	-	11	3	0.3	3.5	0.1	0.3	1.1	5.7	10.7	16.2	0.7	0.3	5.9

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Vineland-Millville-Bridgeton SMSA—Con.														
32	Stone, clay, and glass products -----	-	50	27	9.1	122.2	7.6	14.7	94.5	251.5	141.9	393.5	21.5	10.9	164.0
322	Glass and glassware, pressed or blown -----	-	17	11	7.6	105.0	6.4	12.3	82.2	213.5	122.8	336.0	(D)	9.4	142.3
3231	Products of purchased glass -----	-	23	13	1.4	15.5	1.1	2.2	11.2	33.9	15.0	49.5	1.0	0.8	10.8
35	Machinery, except electrical -----	E1	27	4	0.6	7.2	0.3	0.7	3.8	14.2	6.7	19.8	(D)	(NA)	(NA)
	Wilmington, Del.-N.J.-Md., SMSA -----	-	530	212	62.0	1 169.3	29.7	57.5	419.3	1 481.6	3 435.7	4 874.6	158.4	64.1	1 161.3
20	Food and kindred products -----	E1	43	17	1.4	15.6	0.9	1.8	7.7	34.7	70.1	105.1	(D)	2.3	46.0
201	Meat products -----	E1	11	3	0.3	2.2	0.3	0.7	2.0	3.3	10.5	13.8	0.3	0.3	2.4
22	Textile mill products -----	-	8	4	0.6	6.1	0.5	1.0	4.4	10.9	11.3	22.9	0.9	0.8	8.0
23	Apparel and other textile products -----	-	25	15	1.2	7.0	1.2	2.0	6.3	17.2	5.9	23.7	0.2	1.5	12.5
233	Women's and misses' outerwear -----	-	13	10	0.8	4.4	0.8	1.3	4.1	12.6	2.2	15.0	0.1	0.7	4.6
24	Lumber and wood products -----	-	24	6	0.3	4.0	0.3	0.6	3.2	8.7	16.8	25.9	0.3	0.3	5.3
26	Paper and allied products -----	-	14	11	0.9	11.9	0.7	1.4	8.0	24.7	40.8	65.3	2.8	1.1	15.7
2752	Commercial printing, lithographic -----	E1	20	5	0.4	4.8	0.3	0.5	3.1	8.4	4.3	12.7	0.3	0.4	6.1
28	Chemicals and allied products -----	-	52	35	11.5	227.4	7.8	15.3	133.4	610.3	865.0	1 475.1	99.7	10.8	381.7
281	Industrial inorganic chemicals -----	-	9	5	1.5	29.4	0.9	1.8	16.2	92.0	81.8	174.8	(D)	1.7	65.6
30	Rubber and miscellaneous plastics products -----	-	34	26	2.7	35.8	1.9	3.8	21.2	91.9	90.0	183.3	8.8	3.3	64.9
3079	Miscellaneous plastics products -----	-	29	22	2.3	30.2	1.6	3.2	18.4	82.3	82.1	163.0	(D)	2.1	43.7
32	Stone, clay, and glass products -----	-	32	12	1.7	22.2	1.4	2.5	17.3	48.5	50.1	98.7	2.6	2.3	40.8
33	Primary metal industries -----	-	10	7	2.4	34.8	1.7	3.0	22.9	45.5	78.5	123.9	(D)	2.6	38.5
34	Fabricated metal products -----	-	47	17	1.9	23.5	1.4	2.7	15.4	45.3	34.8	78.5	1.7	2.0	30.3
344	Fabricated structural metal products -----	E1	26	12	1.1	15.0	0.8	1.6	9.4	28.3	25.1	52.4	1.0	0.9	15.6
349	Miscellaneous fabricated metal products -----	E1	11	3	0.3	4.2	0.2	0.5	2.9	9.8	5.4	14.8	0.5	0.3	6.3
35	Machinery, except electrical -----	E1	47	9	1.1	18.3	0.7	1.3	9.0	24.1	13.0	37.3	(D)	1.0	15.1
36	Electric and electronic equipment -----	-	11	5	0.8	8.9	0.6	1.2	5.8	18.3	25.8	44.6	1.3	1.4	14.6

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
 (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Atlantic County (Coextensive with Atlantic City, N.J., SMSA; see table 6.)														
	Bergen County -----	-	2 579	904	109.1	1 519.7	63.8	126.1	712.5	2 843.8	3 683.6	6 506.1	202.6	110.2	1 958.4
20	Food and kindred products --	-	103	48	6.0	86.0	4.0	8.5	52.1	285.5	509.9	801.9	15.8	5.9	172.5
203	Preserved fruits and vegetables -----	-	14	7	0.9	11.0	0.6	1.3	6.4	38.5	35.8	74.2	1.5	(NA)	(NA)
205	Bakery products -----	-	23	7	1.8	24.8	1.6	3.3	19.7	87.0	50.0	136.6	(D)	(NA)	(NA)
208	Beverages -----	-	19	11	1.2	20.3	0.4	1.0	6.5	60.7	86.0	147.5	4.6	0.9	26.3
2087	Flavoring extracts and sirups, n.e.c. -----	-	10	7	0.5	8.2	0.2	0.5	3.7	24.2	36.9	62.0	(D)	(NA)	(NA)
209	Miscellaneous foods and kindred products -----	-	15	10	1.1	17.3	0.7	1.6	10.1	72.2	244.3	322.9	1.9	1.0	35.1
2258	Warp knit fabric mills -----	-	18	11	1.5	14.5	1.3	2.7	11.0	20.5	31.1	53.3	(D)	(NA)	(NA)
226	Textile finishing, except wool -----	-	12	6	0.9	10.7	0.7	1.5	7.6	22.1	23.9	44.5	(D)	1.1	18.5
228	Yarn and thread mills -----	-	8	4	0.5	4.4	0.4	0.7	2.8	7.6	19.0	26.2	(D)	(NA)	(NA)
229	Miscellaneous textile goods -----	E3	22	11	0.7	7.1	0.6	1.1	4.8	12.7	13.7	26.1	(D)	1.3	24.7
23	Apparel and other textile products -----	E1	283	76	6.3	54.1	5.4	9.3	39.0	112.7	127.0	238.3	(D)	6.1	75.2
233	Women's and misses' outerwear -----	-	69	36	2.5	20.9	2.2	3.5	15.9	44.0	65.6	108.8	(D)	2.1	23.0
2337	Women's and misses' suits and coats -----	-	24	14	1.1	9.9	1.0	1.7	7.7	17.4	25.5	42.3	(D)	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c. -----	-	13	7	0.6	6.6	0.6	0.9	4.6	20.4	36.5	56.4	(D)	(NA)	(NA)
238	Miscellaneous apparel and accessories -----	-	13	7	0.6	4.8	0.6	0.9	3.5	7.4	7.4	14.7	(D)	0.6	7.1
239	Miscellaneous fabricated textile products -----	E1	170	24	2.2	21.7	1.8	3.5	15.3	38.7	33.1	71.9	(D)	2.0	28.2
2397	Schiffli machine embroideries -----	E1	87	12	1.0	12.4	0.8	1.8	8.5	21.4	19.9	41.5	(D)	(NA)	(NA)
24	Lumber and wood products --	-	54	11	1.1	14.3	0.8	1.6	8.2	23.7	38.6	61.2	(D)	1.1	13.2
243	Millwork, plywood, and structural members -----	-	30	7	0.5	7.8	0.4	1.0	5.3	13.7	17.7	29.8	(D)	0.6	8.3
25	Furniture and fixtures -----	-	46	15	1.4	14.3	1.1	2.1	9.6	30.6	26.6	56.1	(D)	1.3	15.5
26	Paper and allied products --	-	75	53	5.7	82.7	4.3	8.8	54.1	190.5	234.1	423.9	25.3	5.8	117.7
264	Miscellaneous converted paper products -----	-	40	24	2.7	34.8	2.0	4.1	23.4	90.4	103.9	191.3	18.4	2.2	44.9
2649	Converted paper products, n.e.c. -----	-	16	7	0.5	8.1	0.4	0.9	5.5	17.1	25.4	40.1	(D)	(NA)	(NA)
265	Paperboard containers and boxes -----	-	30	24	2.5	36.0	1.9	3.9	23.5	68.3	77.1	147.8	(D)	3.1	56.2
2651	Folding paperboard boxes -----	-	10	9	0.8	12.9	0.7	1.3	8.8	23.6	21.3	47.1	0.6	(NA)	(NA)
2653	Corrugated and solid fiber boxes -----	-	15	11	1.4	19.8	1.0	2.1	12.1	39.5	50.0	89.6	2.4	(NA)	(NA)
27	Printing and publishing -----	E1	430	84	10.7	133.1	5.0	9.5	57.2	275.0	154.6	426.1	15.6	9.7	178.7
2711	Newspapers -----	-	38	9	1.3	16.4	0.4	0.9	5.0	38.8	12.9	51.7	1.7	(NA)	(NA)
273	Books -----	E2	38	11	1.3	15.9	0.7	1.4	7.9	46.4	35.5	79.8	1.4	0.9	25.7
2731	Book publishing -----	-	23	6	0.6	6.5	0.2	0.3	1.4	28.6	19.4	46.2	0.2	(NA)	(NA)
2732	Book printing -----	E5	15	5	0.7	9.4	0.6	1.1	6.4	17.9	16.2	33.7	1.1	(NA)	(NA)
275	Commercial printing -----	E1	223	33	2.6	36.6	2.1	4.0	25.4	76.8	57.5	133.8	4.3	2.5	47.5
2751	Commercial printing, letterpress -----	E1	125	14	1.3	13.8	1.0	2.0	9.9	33.0	19.2	51.8	1.7	(NA)	(NA)
2752	Commercial printing, lithographic -----	E2	90	17	1.2	21.0	1.0	1.8	14.3	40.6	37.5	78.0	2.5	(NA)	(NA)
278	Blankbooks and bookbinding -----	-	24	10	1.1	11.0	0.9	1.6	8.1	20.3	13.4	33.7	0.9	0.9	12.1
2789	Bookbinding and related work -----	-	19	7	0.7	7.4	0.6	1.0	5.9	11.2	2.7	13.8	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	179	80	9.2	139.0	5.3	10.9	62.9	407.0	461.2	864.9	25.3	8.9	257.6
2819	Industrial inorganic chemicals, n.e.c. -----	-	7	3	0.5	9.1	0.3	0.6	4.6	27.9	31.2	52.9	(D)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Bergen County—Con.														
28	Chemicals and allied products—Con.														
2834	Pharmaceutical preparations-----	-	20	7	0.7	9.0	0.6	1.2	5.8	29.4	33.9	64.4	1.3	(NA)	(NA)
284	Soaps, cleaners, and toilet goods-----	-	54	27	4.5	70.5	2.6	5.2	28.1	206.7	190.0	400.3	5.4	4.0	132.6
2841	Soap and other detergents-----	-	11	7	0.7	12.6	0.4	0.8	6.6	31.8	39.1	71.8	(D)	(NA)	(NA)
2842	Polishes and sanitation goods-----	E1	12	5	0.5	8.2	0.2	0.4	2.7	16.1	17.9	34.7	(D)	(NA)	(NA)
2844	Toilet preparations-----	-	24	11	3.0	45.8	1.8	3.6	16.5	145.3	105.5	253.5	2.1	(NA)	(NA)
2851	Paints and allied products-----	E1	27	11	0.6	9.0	0.4	0.7	4.4	21.2	33.4	54.1	(D)	(NA)	(NA)
2859	Industrial organic chemicals, n.e.c.-----	-	9	4	0.6	9.3	0.3	0.7	4.6	35.9	49.1	85.5	5.5	(NA)	(NA)
289	Miscellaneous chemical products-----	E1	40	15	1.2	17.2	0.6	1.1	7.2	41.7	56.5	97.9	(D)	1.4	32.2
2893	Printing ink-----	E1	15	9	0.8	11.1	0.4	0.8	5.6	26.2	40.8	66.5	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products-----	E2	99	43	3.7	41.6	3.0	6.0	28.1	99.4	115.5	212.6	7.9	3.2	60.6
3079	Miscellaneous plastics products-----	E2	91	39	3.1	34.6	2.5	5.1	23.5	78.5	98.1	175.4	7.3	(NA)	(NA)
31	Leather and leather products-----	-	15	11	1.4	12.2	1.3	2.4	9.3	20.1	19.2	39.6	(D)	1.1	14.8
314	Footwear, except rubber--	-	5	5	1.0	9.0	0.9	1.7	6.8	14.3	13.6	28.0	(D)	0.7	8.4
32	Stone, clay, and glass products-----	E1	61	20	1.0	11.9	0.7	1.4	8.0	21.1	24.4	46.4	1.2	1.4	23.0
327	Concrete, gypsum, and plaster products-----	E1	24	9	0.5	6.4	0.3	0.7	4.3	8.9	14.6	24.4	0.5	0.8	13.8
33	Primary metal industries-----	-	34	16	2.3	27.3	1.8	3.4	17.7	55.0	63.2	116.8	1.9	2.2	36.4
335	Nonferrous rolling and drawing-----	-	6	5	1.2	13.3	0.8	1.6	7.6	28.9	40.0	68.1	0.9	1.1	19.4
34	Fabricated metal products---	-	244	92	10.0	134.2	6.9	13.6	72.7	269.5	255.7	525.8	13.7	6.9	130.9
344	Fabricated structural metal products-----	-	78	23	3.1	51.7	1.8	3.6	22.5	89.0	94.6	184.5	6.0	1.5	28.3
3442	Metal doors, sash, and trim-----	E1	17	5	0.5	5.2	0.4	0.7	3.2	9.5	9.4	19.1	0.2	(NA)	(NA)
345	Screw machine products, bolts, etc.-----	-	25	10	0.5	6.1	0.3	0.7	3.7	13.7	8.8	22.2	0.3	0.5	9.7
346	Metal forgings and stampings-----	E3	33	14	0.7	8.5	0.5	1.1	6.0	17.1	16.6	33.3	0.9	0.5	7.7
3469	Metal stampings, n.e.c.---	E2	30	13	0.6	7.2	0.5	0.9	5.0	15.0	13.5	28.2	(D)	(NA)	(NA)
347	Metal services, n.e.c.-----	E1	33	15	0.6	6.4	0.5	0.9	4.3	12.3	12.0	24.2	0.4	0.7	10.6
349	Miscellaneous fabricated metal products-----	-	48	20	2.7	35.9	1.8	3.9	20.2	76.1	72.7	148.9	3.7	1.7	35.6
3494	Valves and pipe fittings--	-	8	7	1.4	19.1	0.9	1.9	10.6	44.3	29.3	73.2	(D)	(NA)	(NA)
3499	Fabricated metal products, n.e.c.-----	-	26	7	0.8	10.1	0.6	1.2	5.4	13.3	22.8	36.4	(D)	(NA)	(NA)
35	Machinery, except electrical--	-	357	80	7.3	100.7	4.7	9.3	56.6	196.3	154.1	347.4	10.1	6.4	122.1
3544	Special dies, tools, jigs, and fixtures-----	E1	45	5	0.5	6.4	0.4	0.7	4.6	10.3	9.4	19.6	0.7	(NA)	(NA)
3545	Machine tool accessories-----	-	15	6	0.7	10.6	0.5	0.9	6.0	21.4	17.2	38.3	1.4	(NA)	(NA)
355	Special industry machinery--	E1	59	15	1.1	15.4	0.7	1.3	8.3	29.5	27.0	55.7	1.0	1.4	26.0
3555	Printing trades machinery-----	-	16	6	0.5	6.3	0.2	0.5	3.3	13.4	11.7	24.1	0.6	(NA)	(NA)
356	General industrial machinery-----	-	42	16	1.3	17.8	0.8	1.7	9.5	35.8	27.6	63.5	1.6	1.0	24.2
358	Refrigeration and service machinery-----	-	18	8	0.8	9.6	0.4	0.7	4.3	21.4	24.4	44.2	0.3	1.0	19.8
3589	Service industry machinery, n.e.c.-----	-	12	4	0.6	7.2	0.3	0.4	2.8	16.2	18.5	33.1	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical-----	E1	127	18	1.7	23.5	1.3	2.8	17.0	44.4	21.3	65.7	1.9	1.1	20.0
36	Electric and electronic equipment-----	E1	154	64	6.2	76.6	4.2	7.8	39.7	149.6	101.8	251.1	7.6	12.2	180.9
362	Electrical industrial apparatus-----	-	18	4	0.7	7.7	0.5	1.0	5.2	13.3	11.1	24.7	0.3	1.3	16.7
367	Electronic components and accessories-----	E1	41	16	1.3	16.6	1.0	2.0	11.0	27.3	18.1	45.2	4.1	1.5	21.2
3679	Electronic components, n.e.c.-----	E2	32	10	1.0	10.4	0.7	1.4	6.3	16.3	12.1	28.0	2.9	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies--	E3	17	9	1.0	12.5	0.7	1.3	5.9	28.7	24.5	51.2	1.3	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital ex- pend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Bergen County—Con.														
38	Instruments and related products -----	-	80	39	6.6	103.2	3.0	5.9	39.5	195.5	114.6	300.8	14.5	4.0	63.4
3811	Engineering and scientific instruments ---	-	11	6	1.7	31.1	0.7	1.6	12.6	48.2	19.9	69.8	2.0	(NA)	(NA)
382	Measuring and controlling devices -----	-	23	14	1.7	26.5	0.8	1.6	9.7	59.2	46.8	101.4	3.5	0.6	11.4
3825	Instruments to measure electricity -----	-	7	5	1.0	18.8	0.4	0.8	6.2	40.5	34.6	71.8	0.6	(NA)	(NA)
3829	Measuring and controlling devices, n.e.c. -----	E1	12	7	0.6	6.8	0.4	0.7	3.1	17.4	11.4	27.5	(D)	(NA)	(NA)
384	Medical instruments and supplies -----	E1	20	10	2.4	34.9	1.1	2.1	13.5	62.0	31.7	88.4	7.6	2.6	39.3
--	Administrative and auxiliary --	-	113	71	15.2	280.6	-	-	-	-	-	-	-	(NA)	(NA)
	Burlington County -----	-	486	169	21.1	272.3	14.6	28.0	165.7	590.9	635.9	1 225.2	36.4	21.7	412.5
20	Food and kindred products --	-	22	11	0.9	11.6	0.7	1.2	6.3	41.1	94.5	135.2	0.8	0.9	22.8
22	Textile mill products -----	E1	18	14	1.6	14.9	1.4	2.8	11.7	26.1	26.5	52.5	1.6	1.3	14.4
27	Printing and publishing -----	E2	61	12	0.8	9.8	0.6	1.1	6.0	20.1	11.0	31.1	1.1	0.5	8.6
275	Commercial printing -----	E1	40	6	0.5	6.3	0.4	0.7	4.1	12.3	8.3	20.5	0.8	(NA)	(NA)
28	Chemicals and allied products -----	-	25	8	1.3	22.2	0.8	1.7	11.7	85.3	126.9	213.5	6.6	1.8	38.7
33	Primary metal industries -----	-	15	8	1.5	22.1	1.1	2.2	15.9	77.9	76.7	153.2	3.7	3.1	58.6
34	Fabricated metal products ---	-	55	23	2.3	29.2	1.6	3.2	15.9	62.9	51.4	110.5	6.0	2.3	38.9
35	Machinery, except electrical --	E1	89	23	2.9	35.7	1.8	3.6	18.8	64.0	51.4	115.4	4.6	2.7	82.5
356	General industrial machinery -----	-	16	6	0.7	10.5	0.3	0.7	4.7	22.1	21.9	43.4	(D)	0.5	8.1
357	Office and computing machines -----	E1	8	6	1.2	12.7	0.8	1.5	6.1	20.7	14.1	35.1	2.0	(NA)	(NA)
36	Electric and electronic equipment -----	-	37	14	3.1	58.4	2.3	4.5	41.7	93.2	62.8	156.2	(D)	(NA)	(NA)
37	Transportation equipment ---	-	12	4	0.8	10.2	0.6	1.3	7.3	17.6	16.2	34.4	1.0	0.5	5.0
38	Instruments and related products -----	-	12	4	0.5	6.9	0.3	0.5	2.8	17.4	11.6	28.7	0.4	(NA)	(NA)
	Camden County -----	-	806	253	32.8	446.2	22.0	42.2	253.2	952.1	1 102.5	2 033.7	53.0	35.9	638.2
20	Food and kindred products --	-	51	25	4.1	51.1	3.0	5.7	33.5	175.6	328.9	503.7	12.3	4.9	114.0
208	Beverages -----	-	8	4	0.5	7.1	0.3	0.5	3.0	22.3	38.5	59.9	1.8	0.5	12.1
23	Apparel and other textile products -----	E2	36	14	0.9	6.3	0.7	1.3	4.5	13.0	12.4	25.3	(D)	1.0	7.3
233	Women's and misses' outerwear -----	E1	14	9	0.5	3.9	0.5	0.8	2.7	7.3	7.5	14.7	(D)	0.6	3.8
25	Furniture and fixtures -----	E1	17	7	0.5	6.0	0.4	0.8	4.2	11.6	11.1	22.6	(D)	0.5	6.9
26	Paper and allied products ---	-	28	12	1.6	20.9	1.3	2.6	15.6	37.9	72.2	109.8	3.2	1.9	32.9
27	Printing and publishing -----	E1	143	30	3.1	41.2	1.9	3.4	23.0	85.1	41.2	126.0	3.8	2.5	51.6
275	Commercial printing -----	E2	88	10	0.9	11.5	0.7	1.2	7.5	21.7	13.1	34.7	1.3	0.8	19.1
28	Chemicals and allied products -----	-	43	21	2.6	32.5	1.7	3.4	19.3	90.1	125.8	210.8	4.9	2.9	65.7
2851	Paints and allied products -----	-	10	4	0.6	8.9	0.4	0.7	4.6	28.5	50.2	78.7	(D)	(NA)	(NA)
289	Miscellaneous chemical products -----	-	11	6	1.0	11.2	0.6	1.3	6.8	23.5	24.7	44.6	0.7	1.0	19.2
30	Rubber and miscellaneous plastics products -----	-	23	9	0.8	9.0	0.7	1.2	5.8	18.8	16.2	34.9	0.9	0.5	7.0
32	Stone, clay, and glass products -----	-	35	17	3.0	41.7	2.4	4.8	32.1	133.1	97.2	230.2	9.9	3.3	83.9

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	E ¹	1977										1972		
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Camden County—Con.														
32	Stone, clay, and glass products—Con.														
327	Concrete, gypsum, and plaster products -----	-	16	5	0.5	7.4	0.4	0.8	5.2	12.1	17.8	29.3	(D)	0.7	18.1
3296	Mineral wool -----	-	4	4	2.0	29.8	1.7	3.5	23.9	112.2	71.0	183.5	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	109	27	2.9	35.4	2.3	4.3	24.3	90.8	99.7	189.8	4.2	3.7	76.1
344	Fabricated structural metal products -----	E1	51	13	1.1	13.6	0.9	1.6	9.1	22.4	27.1	49.1	1.1	1.1	17.3
3444	Sheet metal work -----	E1	19	5	0.5	5.9	0.4	0.7	4.1	9.3	11.5	20.4	0.5	(NA)	(NA)
346	Metal forgings and stampings -----	-	10	4	0.6	8.1	0.4	0.9	5.4	12.0	27.2	39.3	1.3	0.9	11.8
3469	Metal stampings, n.e.c. --	-	10	4	0.6	8.1	0.4	0.9	5.4	12.0	27.2	39.3	1.3	(NA)	(NA)
35	Machinery, except electrical --	E1	136	25	2.7	38.8	1.8	3.7	22.4	71.6	45.2	116.8	3.4	2.4	44.5
355	Special industry machinery --	-	14	4	0.8	13.4	0.5	1.1	7.2	22.9	14.5	37.0	1.2	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E4	55	4	0.6	7.6	0.5	0.9	5.3	13.1	5.7	18.8	0.7	0.6	7.9
3599	Machinery, except electrical, n.e.c. -----	E4	55	4	0.6	7.6	0.5	0.9	5.3	13.1	5.7	18.8	0.7	(NA)	(NA)
36	Electric and electronic equipment -----	-	44	20	5.0	84.5	3.1	5.9	44.0	138.1	112.3	239.9	4.2	5.9	91.4
367	Electronic components and accessories -----	E3	16	8	0.5	5.8	0.4	0.8	3.2	9.8	6.7	16.9	(D)	(NA)	(NA)
-	Administrative and auxiliary --	-	21	9	2.1	39.8	-	-	-	-	-	-	-	(NA)	(NA)
	Cape May County -----	-	76	12	0.9	8.2	0.7	1.1	5.5	11.8	22.7	34.4	0.9	1.3	13.6
	Cumberland County (Coextensive with Vineland-Millville-Bridgeton, N.J., SMSA; see table 6.)														
	Essex County -----	-	2 006	710	86.1	1 195.1	54.8	106.1	586.7	2 460.2	2 272.2	4 751.1	118.1	104.0	1 912.4
20	Food and kindred products --	-	92	38	6.3	97.6	4.4	8.3	63.4	241.6	419.2	659.8	8.8	10.2	235.1
203	Preserved fruits and vegetables -----	E1	14	7	0.7	7.2	0.5	1.0	4.7	17.4	27.5	44.9	0.9	(NA)	(NA)
232	Men's and boys' furnishings -----	-	12	6	0.8	5.3	0.6	1.1	3.9	10.9	5.8	16.1	(D)	0.5	7.1
233	Women's and misses' outerwear -----	E5	88	49	2.7	18.5	2.5	4.4	15.5	28.1	11.7	39.5	(D)	3.2	19.7
2335	Women's and misses' dresses -----	E7	47	23	1.1	6.9	1.0	1.6	5.6	9.6	4.7	14.3	(D)	(NA)	(NA)
2337	Women's and misses' suits and coats -----	E4	27	17	0.9	7.0	0.9	1.5	5.7	10.6	4.4	15.0	(D)	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c. -----	E3	9	6	0.6	4.0	0.6	1.2	3.6	7.0	2.4	9.3	(D)	(NA)	(NA)
238	Miscellaneous apparel and accessories -----	-	12	9	0.7	4.7	0.6	1.1	3.4	11.3	8.5	19.4	(D)	1.3	12.3
26	Paper and allied products ---	-	58	31	2.7	36.3	2.1	4.4	23.8	69.7	82.8	152.3	5.3	2.7	49.3
264	Miscellaneous converted paper products -----	E1	28	11	1.0	12.4	0.8	1.7	8.9	26.6	33.5	60.2	(D)	0.8	17.3
2653	Corrugated and solid fiber boxes -----	-	11	7	0.9	15.6	0.6	1.4	9.0	26.7	33.1	59.8	3.4	(NA)	(NA)
27	Printing and publishing -----	E1	256	42	5.6	72.7	3.6	6.7	43.9	144.3	94.0	238.2	4.8	6.0	108.6
273	Books -----	-	22	5	0.5	7.0	0.2	0.5	3.2	15.3	8.1	23.2	1.2	(NA)	(NA)
275	Commercial printing -----	E1	158	25	2.5	33.3	1.9	3.7	22.3	57.1	39.7	96.5	2.6	2.7	42.8
28	Chemicals and allied products -----	-	145	64	13.0	248.0	6.1	12.6	78.6	825.0	574.9	1 413.5	49.0	13.8	555.8
2819	Industrial inorganic chemicals, n.e.c. -----	-	7	5	0.5	8.5	0.3	0.6	4.2	34.9	114.6	151.1	(D)	(NA)	(NA)
284	Soaps, cleaners, and toilet goods -----	E1	27	6	0.6	8.5	0.3	0.6	3.5	30.4	27.5	58.1	1.1	1.1	29.2
289	Miscellaneous chemical products -----	-	28	11	0.8	11.1	0.4	0.9	5.7	30.4	37.4	67.2	3.2	0.7	18.3
30	Rubber and miscellaneous plastics products -----	E1	101	45	3.4	38.6	2.5	5.1	23.8	91.3	92.7	183.3	4.5	3.6	57.6
3079	Miscellaneous plastics products -----	E1	85	41	3.1	34.7	2.3	4.6	21.2	83.5	84.1	166.9	4.2	(NA)	(NA)
32	Stone, clay, and glass products -----	E1	47	17	0.8	10.7	0.6	1.3	7.1	24.0	21.1	44.8	1.7	1.1	15.8

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Essex County—Con.														
33	Primary metal industries -----	-	51	28	3.0	41.9	2.4	4.8	28.6	71.6	149.9	225.2	7.5	3.3	68.7
335	Nonferrous rolling and drawing -----	-	9	6	1.6	22.1	1.3	2.7	15.7	41.3	51.3	91.7	1.6	(NA)	(NA)
34	Fabricated metal products ---	E1	266	73	7.0	85.1	5.6	11.1	57.8	166.2	117.5	282.1	9.2	8.2	133.2
342	Cutlery, hand tools, and hardware -----	-	23	9	1.8	20.7	1.4	3.0	15.9	44.9	24.8	69.6	2.8	2.1	33.3
344	Fabricated structural metal products -----	E2	60	17	1.0	12.8	0.8	1.6	9.0	22.6	21.5	44.5	0.8	1.4	24.8
3444	Sheet metal work -----	E2	26	7	0.5	5.9	0.4	0.8	4.5	10.6	9.2	19.7	(D)	(NA)	(NA)
346	Metal forgings and stampings -----	E1	36	14	1.2	13.8	1.0	2.0	9.9	24.2	21.3	45.3	2.7	0.9	13.0
347	Metal services, n.e.c. -----	-	52	8	0.7	8.6	0.6	1.3	6.2	15.2	7.5	22.7	0.4	0.8	10.7
349	Miscellaneous fabricated metal products -----	-	54	17	1.7	21.6	1.3	2.3	12.1	42.7	30.5	72.0	2.1	1.8	34.5
35	Machinery, except electrical --	-	285	71	7.0	94.2	4.8	9.2	52.1	179.3	145.6	330.0	6.7	6.8	120.9
354	Metalworking machinery ---	E2	82	14	0.9	12.2	0.7	1.3	7.6	19.9	12.5	32.0	(D)	1.0	19.7
355	Special industry machinery, n.e.c. -----	-	48	18	2.6	38.1	1.5	3.0	18.3	74.0	71.9	145.8	1.7	2.2	36.9
3559	Special industry machinery, n.e.c. -----	-	31	11	1.8	25.9	1.0	2.1	13.0	45.8	25.0	73.0	1.1	(NA)	(NA)
356	General industrial machinery -----	-	37	18	1.6	22.1	1.2	2.3	12.3	42.9	28.5	76.2	(D)	1.4	25.7
359	Miscellaneous machinery, except electrical -----	E1	86	14	0.8	10.6	0.7	1.3	7.2	17.0	7.7	24.7	(D)	0.8	13.1
36	Electric and electronic equipment -----	-	141	57	10.5	149.7	7.0	13.7	79.5	244.2	193.4	446.2	8.4	14.5	238.8
361	Electric distributing equipment -----	-	13	8	2.0	27.1	1.4	2.6	15.8	56.5	32.2	87.5	(D)	(NA)	(NA)
363	Household appliances -----	-	6	2	0.5	5.9	0.4	0.7	4.3	12.2	10.8	23.0	(D)	(NA)	(NA)
364	Electric lighting and wiring equipment -----	-	29	11	1.4	15.0	1.2	2.2	9.8	33.5	27.3	60.8	0.8	5.4	58.6
3643	Current-carrying wiring devices -----	-	12	4	0.6	6.1	0.5	0.9	4.1	13.2	7.3	20.7	0.3	(NA)	(NA)
367	Electronic components and accessories -----	-	51	21	1.4	17.4	1.1	2.2	10.3	37.1	20.4	57.9	1.4	2.1	29.8
3679	Electronic components, n.e.c. -----	E1	39	17	1.2	14.8	0.9	1.8	8.7	30.5	14.6	45.3	1.1	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies --	-	13	5	2.1	34.4	1.3	2.8	16.9	20.4	48.4	65.5	1.9	0.7	10.5
371	Motor vehicles and equipment -----	E1	13	6	0.6	5.3	0.4	0.7	3.3	21.0	34.6	53.5	0.6	0.6	6.6
38	Instruments and related products -----	-	67	28	4.3	49.9	2.9	5.6	26.8	93.9	58.1	151.4	2.9	4.3	74.1
384	Medical instruments and supplies -----	-	16	5	0.5	6.5	0.4	0.8	4.5	11.8	6.5	18.6	0.4	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	E1	133	53	4.7	55.8	3.4	6.3	31.7	112.3	110.8	218.9	2.3	6.3	94.1
391	Jewelry, silverware, and plated ware -----	E2	47	17	1.8	21.5	1.3	2.4	12.3	48.6	55.8	100.6	0.5	1.9	30.5
399	Miscellaneous manufactures -----	-	47	23	2.2	27.2	1.5	2.9	15.2	48.0	41.2	89.0	1.1	3.2	44.8
3993	Signs and advertising displays -----	-	16	10	0.6	5.6	0.5	0.9	3.6	9.5	5.4	14.7	(D)	(NA)	(NA)
3999	Manufacturing industries, n.e.c. -----	-	24	9	1.3	17.6	0.8	1.5	9.4	31.1	29.3	60.7	(D)	(NA)	(NA)
--	Administrative and auxiliary --	-	40	24	6.5	115.8	-	-	-	-	-	-	-	(NA)	(NA)
	Gloucester County -----	-	264	96	13.3	188.4	9.4	18.2	114.0	349.2	1 710.4	2 058.9	16.2	11.8	205.1
20	Food and kindred products --	E1	21	6	0.5	5.3	0.4	0.7	3.6	15.5	36.9	52.7	1.4	0.6	9.0
27	Printing and publishing -----	E1	31	5	0.6	6.2	0.4	0.7	3.3	13.1	5.9	18.9	0.6	(NA)	(NA)
28	Chemicals and allied products -----	-	16	10	1.7	30.5	1.1	2.2	18.3	136.9	168.0	306.7	8.9	1.9	82.0
34	Fabricated metal products ---	-	31	12	1.2	16.3	1.0	1.9	12.3	36.2	39.8	76.3	1.4	1.1	18.6
36	Electric and electronic equipment -----	-	13	9	2.3	25.1	1.8	3.9	18.3	46.3	47.5	92.4	(D)	1.9	23.3
	Hudson County (Coextensive with Jersey City, N.J., SMSA; see table 6.)														

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	E1	1977											1972	
			All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Hunterdon County -----	-	148	58	6.0	80.6	3.9	8.0	43.9	181.1	302.0	481.4	11.8	4.2	85.7
20	Food and kindred products --	-	12	9	1.1	15.8	0.7	1.5	9.1	63.0	131.8	195.0	3.1	0.8	25.7
32	Stone, clay, and glass products -----	-	8	5	0.5	5.5	0.4	0.8	4.0	11.8	9.5	21.1	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	13	7	0.6	7.4	0.4	0.9	4.0	17.0	17.4	33.8	1.1	(NA)	(NA)
	Mercer County (Coextensive with Trenton, N.J., SMSA; see table 6.)														
	Middlesex County (Coextensive with New Brunswick-Perth Amboy-Sayreville, N.J., SMSA; see table 6.)														
	Monmouth County (Coextensive with Long Branch-Asbury Park, N.J., SMSA; see table 6.)														
	Morris County -----	-	774	259	48.4	796.8	20.2	39.7	219.1	1 148.4	887.3	1 998.7	56.7	43.0	833.5
20	Food and kindred products --	-	13	5	0.7	8.5	0.5	1.0	4.9	27.7	44.3	70.4	1.1	0.8	19.8
22	Textile mill products -----	E1	10	6	0.7	8.4	0.5	0.8	4.4	16.6	10.1	26.5	(D)	(NA)	(NA)
26	Paper and allied products ---	-	21	11	1.4	19.8	1.1	2.3	13.2	38.7	98.4	137.9	(D)	(NA)	(NA)
27	Printing and publishing -----	-	110	18	2.2	26.9	0.9	1.5	9.8	55.6	30.8	86.5	1.8	2.1	45.0
2711	Newspapers -----	-	15	3	0.7	6.2	0.2	0.3	2.8	11.3	3.8	15.0	0.2	(NA)	(NA)
28	Chemicals and allied products -----	-	39	20	4.0	65.1	2.4	5.0	30.9	361.6	185.8	536.2	16.5	4.3	297.3
289	Miscellaneous chemical products -----	-	13	5	0.8	10.7	0.5	1.0	6.4	29.7	21.9	51.2	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	52	25	2.6	26.9	1.9	3.9	18.5	63.5	56.8	120.1	6.2	2.6	45.3
32	Stone, clay, and glass products -----	-	32	6	1.3	18.0	1.1	2.2	14.2	35.0	35.4	71.0	2.9	1.6	37.5
34	Fabricated metal products ---	-	92	28	4.4	63.3	2.7	5.2	31.4	142.2	88.2	229.3	3.7	4.1	84.3
346	Metal forgings and stampings -----	-	15	3	0.5	6.4	0.4	0.8	4.2	12.8	8.8	21.6	0.4	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	27	15	2.9	44.6	1.6	3.0	19.9	106.9	61.3	167.5	2.3	2.8	62.1
3494	Valves and pipe fittings --	-	6	5	2.0	33.0	1.0	1.7	13.3	79.7	28.8	107.7	1.1	(NA)	(NA)
35	Machinery, except electrical --	-	148	27	4.2	60.3	2.1	4.2	25.3	127.8	96.5	210.8	13.0	3.8	100.8
355	Special industry machinery -	-	11	4	1.1	14.8	0.5	1.1	6.3	54.3	16.4	65.0	1.8	1.2	29.8
36	Electric and electronic equipment -----	-	70	27	5.5	67.4	3.6	6.8	33.1	137.4	92.2	223.9	4.5	4.1	72.5
366	Communication equipment -	-	10	4	1.9	25.3	1.1	1.8	10.2	41.0	35.5	72.8	1.8	(NA)	(NA)
367	Electronic components and accessories -----	-	28	11	1.8	21.4	1.2	2.5	10.7	48.7	23.4	70.2	1.8	1.4	23.0
3679	Electronic components, n.e.c. -----	-	18	6	1.1	13.9	0.7	1.5	5.9	32.8	18.4	49.5	1.2	(NA)	(NA)
38	Instruments and related products -----	-	41	21	2.0	27.9	1.2	2.3	12.9	63.4	44.0	105.9	1.9	1.4	22.8
382	Measuring and controlling devices -----	-	22	10	0.7	8.3	0.4	0.7	3.7	19.1	9.0	27.6	0.5	(NA)	(NA)
-	Administrative and auxiliary --	-	51	42	16.3	371.4	-	-	-	-	-	-	-	(NA)	(NA)
	Ocean County -----	-	242	53	6.4	75.3	5.0	9.9	50.0	184.4	163.8	348.5	16.0	5.1	76.6
27	Printing and publishing -----	E4	42	6	0.5	4.2	0.3	0.4	2.2	7.3	3.9	11.3	0.9	(NA)	(NA)
36	Electric and electronic equipment -----	-	14	6	0.8	8.3	0.7	1.5	6.0	12.2	11.8	24.0	0.5	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
36	Ocean County—Con. Electric and electronic equipment—Con. Passaic County (Coextensive with Paterson-Clifton-Passaic, N.J., SMSA; see table 6.) Salem County ----- Sussex County -----	- - -	59 113	27 27	9.6 2.9	174.0 29.8	7.1 2.1	13.3 5.0	107.5 18.3	382.2 61.2	540.2 64.7	920.4 126.1	(D) 3.1	10.8 2.8	306.6 41.3
23	Apparel and other textile products -----	E1	13	4	0.5	2.8	0.4	0.8	2.4	3.5	6.6	10.1	0.1	0.5	3.0
30	Rubber and miscellaneous plastics products ----- Union County -----	- -	9 1 498	3 624	0.7 92.6	8.7 1 419.0	0.5 55.7	1.1 112.5	4.7 705.3	17.7 3 265.8	13.4 5 651.7	31.0 8 876.9	0.6 183.5	0.6 99.0	9.8 2 235.3
20	Food and kindred products --	-	59	28	3.5	49.4	2.4	4.9	30.1	121.9	412.8	534.2	7.9	3.7	111.1
201	Meat products-----	-	9	5	0.7	8.8	0.6	1.2	6.3	22.4	142.0	164.2	2.5	(NA)	(NA)
202	Dairy products-----	-	9	3	0.5	7.2	0.3	0.6	4.4	15.4	77.7	92.9	(D)	(NA)	(NA)
22	Textile mill products -----	E1	28	14	1.1	11.3	1.0	2.0	8.0	20.2	24.7	44.8	(D)	1.1	18.0
225	Knitting mills -----	-	11	5	0.7	6.8	0.6	1.3	4.9	11.7	18.7	30.4	(D)	0.5	9.5
26	Paper and allied products ---	-	36	26	2.1	29.3	1.6	3.2	18.1	60.4	102.4	163.2	2.2	2.3	41.1
264	Miscellaneous converted paper products -----	-	17	13	1.2	16.9	0.8	1.6	9.4	35.6	70.3	106.2	1.0	(NA)	(NA)
27	Printing and publishing -----	-	175	41	5.5	67.1	3.3	6.3	35.9	160.1	68.7	222.0	7.6	4.0	66.3
275	Commercial printing -----	E1	102	18	1.6	18.8	1.2	2.1	12.2	32.9	23.2	55.9	1.9	0.8	13.0
2751	Commercial printing, letterpress -----	E2	46	6	0.6	5.4	0.5	0.7	3.9	10.5	6.4	16.8	(D)	(NA)	(NA)
2752	Commercial printing, lithographic -----	E1	53	12	1.0	13.3	0.7	1.3	8.2	22.0	16.4	38.4	1.2	(NA)	(NA)
278	Blankbooks and bookbinding -----	-	11	7	2.0	22.2	1.3	2.7	14.4	66.6	17.8	79.0	(D)	(NA)	(NA)
279	Printing trade services -----	-	22	6	0.8	12.5	0.4	0.7	4.8	34.9	16.5	50.2	0.6	0.5	11.5
28	Chemicals and allied products -----	-	88	44	12.4	213.2	6.9	14.0	109.3	1 163.4	618.3	1 769.7	87.0	13.4	681.7
283	Drugs -----	-	22	16	7.0	117.7	3.9	7.5	60.1	761.1	189.9	944.2	40.0	7.6	470.2
284	Soaps, cleaners, and toilet goods -----	-	16	8	1.9	27.6	0.8	1.5	10.3	123.4	68.1	188.7	(D)	1.0	44.5
289	Miscellaneous chemical products -----	-	18	4	0.5	8.3	0.3	0.8	4.5	36.2	33.7	70.0	0.8	0.9	34.1
30	Rubber and miscellaneous plastics products -----	-	90	47	4.9	52.2	3.9	9.0	34.4	114.5	118.0	230.9	8.3	4.4	70.2
32	Stone, clay, and glass products -----	-	21	9	0.5	6.1	0.3	0.7	3.9	12.4	16.6	28.8	0.4	0.7	14.0
33	Primary metal industries -----	-	46	23	3.1	40.4	2.3	4.8	28.7	108.7	368.5	481.2	2.9	3.7	67.7
335	Nonferrous rolling and drawing -----	-	10	8	1.7	21.2	1.3	2.9	16.7	75.0	302.6	380.9	1.3	2.1	40.4
34	Fabricated metal products ---	-	223	94	10.3	143.6	7.3	14.9	90.5	273.4	260.6	528.8	15.2	11.0	209.4
3441	Fabricated structural metal -----	-	14	6	0.7	8.6	0.4	0.7	4.4	16.5	9.5	25.3	1.8	(NA)	(NA)
3443	Fabricated plate work (boiler shops)-----	-	14	8	0.5	7.2	0.3	0.7	4.3	11.9	11.6	23.6	(D)	(NA)	(NA)
3452	Bolts, nuts, rivets, and washers -----	-	9	5	1.3	21.9	0.8	1.8	13.6	40.1	29.4	67.6	1.8	(NA)	(NA)
3469	Metal stampings, n.e.c. ---	-	34	20	1.8	22.5	1.5	2.9	16.1	43.0	32.4	75.0	2.5	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	37	10	1.2	18.1	0.9	1.8	11.2	32.8	22.6	56.3	2.4	1.8	31.2
35	Machinery, except electrical --	-	292	73	8.5	138.9	6.3	12.9	97.7	235.0	161.4	397.1	9.9	10.0	193.2
353	Construction and related machinery -----	-	10	6	0.5	7.7	0.4	0.7	3.4	18.1	9.5	29.3	(D)	(NA)	(NA)
354	Metalworking machinery -----	-	107	26	2.5	37.8	1.9	3.9	26.2	64.1	34.3	97.2	(D)	3.0	49.5
3544	Special dies, tools, jigs, and fixtures -----	E1	84	17	1.5	23.3	1.2	2.6	17.2	42.4	14.4	56.0	2.5	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Union County—Con.														
35	Machinery, except electrical—Con.														
354	Metalworking machinery—Con.														
3549	Metalworking machinery, n.e.c. -----	-	9	4	0.6	7.9	0.4	0.8	5.4	11.0	12.8	24.4	(D)	(NA)	(NA)
355	Special industry machinery - General industrial machinery -----	E1	27	11	0.8	13.1	0.5	0.9	6.9	16.6	21.5	41.8	0.8	1.2	21.5
356	Miscellaneous machinery, except electrical -----	-	25	10	3.2	63.6	2.6	5.4	50.5	103.4	76.7	177.1	(D)	4.3	99.3
359	Machinery, except electrical, n.e.c. -----	E3	108	16	1.0	12.0	0.8	1.5	8.3	22.0	8.7	30.4	(D)	0.9	13.5
3599	Electric and electronic equipment -----	E3	108	16	1.0	12.0	0.8	1.5	8.3	22.0	8.7	30.4	(D)	(NA)	(NA)
36	Electric lighting and wiring equipment -----	-	90	46	9.9	129.0	6.5	12.4	67.8	247.8	158.7	402.7	15.9	10.8	195.5
364	Radio and TV receiving equipment -----	-	18	11	2.7	39.3	1.4	2.6	15.7	86.4	68.4	154.3	6.9	2.8	66.9
365	Electronic components and accessories -----	-	9	5	1.0	8.5	0.7	1.3	4.2	24.3	13.0	39.0	0.6	(NA)	(NA)
367	Motor vehicle parts and accessories -----	E2	24	11	1.3	12.8	1.0	1.8	7.0	22.7	14.7	37.1	1.1	2.4	34.7
3714	Instruments and related products -----	-	7	3	0.7	11.0	0.3	0.5	2.5	7.6	10.5	18.4	0.5	(NA)	(NA)
38	Miscellaneous manufacturing industries -----	-	38	13	1.6	20.5	0.9	1.7	8.3	35.9	42.2	79.1	1.1	1.5	31.5
39	Toys and sporting goods -----	E1	92	32	2.6	29.4	2.1	4.0	18.6	64.3	68.2	130.9	3.0	3.7	42.8
394	Miscellaneous manufactures -----	-	15	7	0.6	6.1	0.4	0.8	3.3	13.3	11.2	24.4	0.7	1.6	10.7
399	Manufacturing industries, n.e.c. -----	-	40	11	1.0	11.1	0.8	1.6	7.2	27.6	27.1	53.9	1.8	1.1	16.4
3999	Administrative and auxiliary -----	-	20	5	0.6	6.6	0.5	1.0	4.5	20.0	20.1	39.4	(D)	(NA)	(NA)
-	Warren County -----	-	56	43	13.0	279.0	-	-	-	-	-	-	-	(NA)	(NA)
	Paper and allied products ---	-	154	76	12.6	172.9	8.6	17.1	102.5	422.9	523.6	974.2	39.4	14.5	349.2
26	Printing and publishing -----	-	7	6	0.5	7.1	0.4	0.9	5.3	30.0	30.9	60.5	(D)	1.2	21.2
27	Chemicals and allied products -----	-	18	6	0.6	6.5	0.2	0.3	1.6	16.4	3.8	20.2	(D)	0.6	8.8
28	Rubber and miscellaneous plastics products -----	-	10	6	1.9	31.2	1.2	2.7	16.7	75.3	76.8	164.0	17.4	1.5	33.5
30	Miscellaneous plastics products -----	-	10	6	1.3	14.7	1.2	2.2	11.6	27.2	51.0	79.3	2.6	1.7	32.2
3079	Electric and electronic equipment -----	-	10	6	1.3	14.7	1.2	2.2	11.6	27.2	51.0	79.3	2.6	(NA)	(NA)
36		E6	13	5	0.5	5.3	0.4	0.8	3.4	9.3	8.2	17.4	0.4	(NA)	(NA)

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E10—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies.
For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Asbury Park -----	-	26	9	1.4	9.8	0.5	0.8	3.7	18.1	19.3	37.3	1.2	1.3	13.5
	Atlantic City-----	-	46	14	0.9	8.5	0.7	1.4	5.9	13.6	12.3	25.9	0.5	1.8	16.3
	Bayonne -----	-	94	49	5.0	62.1	3.7	7.1	39.7	159.6	332.2	494.4	11.9	6.2	119.4
20	Food and kindred products --	-	7	5	0.8	12.5	0.6	1.2	9.4	48.0	148.4	202.4	(D)	0.9	21.4
23	Apparel and other textile products -----	-	27	14	1.7	15.4	1.2	2.2	7.9	26.2	54.2	79.2	(D)	2.2	29.8
26	Paper and allied products ---	-	5	4	0.6	7.4	0.4	0.8	5.2	9.7	16.0	25.7	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	14	10	0.8	13.1	0.6	1.1	8.2	51.8	76.6	127.3	(D)	0.8	28.0
	Belleville -----	-	124	32	4.5	58.8	2.9	6.0	33.2	121.9	91.0	214.3	7.3	7.9	168.8
34	Fabricated metal products ---	E1	16	6	0.6	6.5	0.4	1.0	4.5	10.9	12.3	22.9	1.2	(NA)	(NA)
	Bellmawr -----	-	34	8	0.9	10.7	0.6	1.2	6.6	20.1	26.5	46.8	0.7	1.0	13.5
	Belmar -----	-	11	4	0.5	4.3	0.4	0.6	3.1	10.0	5.8	16.3	(D)	0.5	3.4
	Bergenfield -----	-	40	8	0.9	8.0	0.4	0.7	3.6	11.0	7.5	18.4	0.5	0.6	8.2
	Berkeley Heights twp -----	-	26	16	1.5	20.0	0.8	1.7	8.9	40.7	26.4	55.0	1.7	1.3	23.9
	Bloomfield -----	-	95	35	5.8	77.9	3.7	7.6	38.2	89.1	117.4	204.2	3.8	7.9	65.7
36	Electric and electronic equipment -----	-	5	4	2.0	31.3	1.3	2.6	15.8	15.6	43.4	58.1	(D)	3.2	25.0
	Bogota -----	-	15	4	0.7	8.2	0.5	1.1	7.0	19.1	53.7	72.5	(D)	(NA)	(NA)
	Boonton -----	-	35	10	1.4	14.5	0.8	1.5	7.6	24.8	30.6	55.5	1.2	2.5	37.3
	Bound Brook -----	-	30	9	2.2	32.5	1.3	2.6	17.7	104.9	99.5	210.2	(D)	5.8	144.0
	Bridgeton -----	-	39	19	3.9	48.9	3.4	6.5	40.0	107.8	136.5	243.8	8.9	5.8	87.3
	Bridgewater twp -----	-	39	22	8.6	135.2	3.6	6.9	49.8	347.0	180.9	500.7	43.1	3.2	100.2
35	Machinery, except electrical --	E1	15	7	0.7	12.2	0.4	0.9	5.8	26.4	18.2	40.5	(D)	(NA)	(NA)
	Buena -----	-	15	9	1.0	11.8	0.8	1.6	8.0	22.5	22.8	45.3	2.9	0.7	10.0
	Burlington -----	-	40	12	1.6	17.3	1.3	2.6	12.6	55.3	35.4	90.4	2.9	3.1	55.5
	Burlington twp -----	-	12	8	1.5	20.3	1.0	2.1	12.5	67.2	102.2	170.9	(D)	1.3	13.5
	Butler -----	-	24	8	0.6	6.7	0.4	0.9	3.9	11.8	16.3	28.1	0.9	1.0	14.0
	Camden -----	-	177	62	12.2	184.2	7.7	14.7	96.4	346.0	406.8	736.8	17.8	15.7	262.5
20	Food and kindred products --	-	19	9	2.4	32.3	1.9	3.6	22.7	106.1	185.1	290.4	7.7	3.7	79.1
28	Chemicals and allied products -----	-	14	8	1.1	12.7	0.7	1.5	7.6	26.4	32.6	55.7	1.7	0.5	9.4
30	Rubber and miscellaneous plastics products -----	-	7	3	0.5	4.8	0.4	0.7	3.3	9.7	9.0	18.9	0.3	(NA)	(NA)
3079	Miscellaneous plastics products -----	-	7	3	0.5	4.8	0.4	0.7	3.3	9.7	9.0	18.9	0.3	(NA)	(NA)
34	Fabricated metal products ---	-	32	8	1.5	18.9	1.1	2.2	13.3	60.9	61.2	121.1	1.8	1.6	43.7
	Carlstadt -----	-	160	93	7.2	90.0	5.0	9.6	51.2	189.3	223.0	406.3	18.6	7.6	120.4
23	Apparel and other textile products -----	-	10	4	0.5	4.6	0.4	0.6	3.2	9.8	22.7	32.6	0.3	(NA)	(NA)
28	Chemicals and allied products -----	-	23	16	1.5	19.7	0.8	1.5	8.3	50.5	55.0	105.0	4.7	1.4	23.8
284	Soaps, cleaners, and toilet goods -----	-	6	4	0.6	8.2	0.3	0.5	3.1	17.2	19.7	37.7	(D)	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies.
For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Carlstadt—Con.														
34	Fabricated metal products ---	-	17	10	0.7	8.5	0.5	1.0	5.2	13.5	12.2	26.4	0.3	0.6	9.6
36	Electric and electronic equipment -----	E3	11	9	1.1	11.3	0.8	1.6	6.9	22.6	19.8	42.1	0.9	1.5	20.3
	Carteret -----	-	43	26	3.5	53.6	2.7	5.6	39.5	163.9	251.9	414.1	13.0	4.4	94.4
	Cedar Grove twp -----	-	38	20	1.5	17.7	1.1	2.2	11.0	37.6	27.5	64.0	3.0	1.5	22.9
	Chatham -----	-	36	8	0.6	8.9	0.4	0.7	3.3	12.2	6.7	19.0	0.5	(NA)	(NA)
	Cherry Hill twp -----	-	122	37	4.9	67.7	2.6	4.6	27.7	113.8	91.5	203.2	5.6	4.2	58.9
27	Printing and publishing -----	E1	30	10	1.0	14.0	0.4	0.7	5.4	28.9	11.0	39.9	1.1	1.0	19.8
35	Machinery, except electrical --	-	23	7	1.2	18.4	0.7	1.3	9.4	34.9	24.8	60.1	1.3	0.8	17.1
	Cinnaminson twp -----	-	43	20	1.9	26.4	1.3	2.8	17.0	76.8	89.7	166.1	5.3	1.3	8.6
	Clark twp -----	-	26	14	4.6	93.9	3.3	6.7	59.5	183.6	105.9	289.2	9.6	7.7	94.4
	Clifton -----	-	304	125	13.2	185.3	8.2	16.5	80.9	361.5	356.6	714.2	19.3	15.7	258.9
22	Textile mill products -----	E1	17	12	0.7	7.7	0.6	1.2	5.7	17.0	18.4	35.3	(D)	1.6	19.0
26	Paper and allied products ---	-	16	12	1.3	18.5	1.0	2.0	11.6	34.6	50.3	84.7	(D)	1.3	17.9
265	Paperboard containers and boxes -----	-	4	3	0.5	7.5	0.4	0.8	4.9	11.7	14.7	26.8	(D)	(NA)	(NA)
27	Printing and publishing -----	-	44	12	1.1	12.3	0.9	1.8	8.7	22.6	11.1	33.7	0.9	1.1	13.9
275	Commercial printing -----	-	18	6	0.5	5.1	0.4	0.8	3.6	9.1	4.7	13.8	0.4	(NA)	(NA)
278	Blankbooks and bookbinding -----	-	8	5	0.6	6.2	0.5	0.9	4.5	11.6	5.4	17.0	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	25	11	2.4	37.3	1.3	2.6	15.8	118.5	96.4	214.1	5.7	2.8	68.9
284	Soaps, cleaners, and toilet goods -----	-	8	3	1.5	22.7	0.6	1.2	5.6	67.0	34.6	100.0	(D)	(NA)	(NA)
288	Industrial organic chemicals -----	-	5	3	0.7	11.2	0.6	1.1	8.6	37.4	44.3	82.5	(D)	(NA)	(NA)
33	Primary metal industries -----	-	7	5	0.6	9.6	0.4	0.9	6.6	18.2	25.7	43.3	(D)	0.6	16.1
34	Fabricated metal products ---	-	31	16	0.8	10.1	0.7	1.3	6.3	20.3	19.8	38.4	1.1	0.9	14.2
35	Machinery, except electrical --	-	55	14	1.1	17.7	0.7	1.6	9.8	33.8	19.9	52.5	1.0	1.5	21.5
36	Electric and electronic equipment -----	E3	21	9	1.6	17.8	1.1	2.0	10.1	35.2	31.0	64.5	(D)	2.0	29.9
367	Electronic components and accessories -----	-	10	3	0.6	6.3	0.4	0.8	3.0	10.5	12.7	22.5	1.0	(NA)	(NA)
38	Instruments and related products -----	-	8	3	0.8	9.6	0.4	1.0	3.8	17.3	11.6	31.9	(D)	0.7	7.6
--	Administrative and auxiliary --	-	14	8	1.2	25.4	-	-	-	-	-	-	-	(NA)	(NA)
	Closter -----	-	14	6	1.0	9.6	0.8	1.8	7.0	18.1	24.2	43.6	0.8	0.7	10.9
	Cranford twp -----	-	56	25	3.1	36.6	2.0	4.1	22.5	138.8	72.9	214.1	4.2	3.3	102.5
30	Rubber and miscellaneous plastics products -----	-	5	4	0.5	5.5	0.4	0.9	4.1	11.1	11.4	22.5	0.9	0.5	9.1
3079	Miscellaneous plastics products -----	-	5	4	0.5	5.5	0.4	0.9	4.1	11.1	11.4	22.5	0.9	(NA)	(NA)
34	Fabricated metal products ---	-	5	5	0.5	6.9	0.4	0.7	4.3	16.6	11.7	28.3	0.5	(NA)	(NA)
	Denville twp -----	-	29	7	0.8	8.2	0.6	1.1	5.1	17.0	11.9	28.8	0.7	1.2	13.1
	Dover -----	-	34	12	1.5	17.1	1.0	2.1	10.6	37.2	51.5	88.2	2.1	2.5	78.0
	Dover twp -----	-	49	13	2.0	31.0	1.4	2.8	19.4	94.3	84.4	182.3	(D)	2.0	36.0

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	East Brunswick twp -----	-	49	14	2.6	42.6	0.8	1.4	9.8	29.0	44.3	72.4	1.9	1.4	22.3
	East Orange -----	-	73	26	2.8	29.0	2.1	3.8	17.9	53.8	51.0	108.7	3.0	3.4	58.0
	East Rutherford -----	-	84	35	6.4	95.5	3.1	6.5	41.2	149.0	176.0	320.2	9.6	7.3	129.0
22	Textile mill products -----	-	8	4	0.5	5.6	0.4	0.8	4.6	9.3	11.9	21.1	0.5	1.5	23.6
28	Chemicals and allied products -----	-	9	6	0.9	13.4	0.5	1.1	7.8	42.6	66.0	108.7	1.7	1.0	29.5
30	Rubber and miscellaneous plastics products -----	-	6	4	0.6	6.7	0.5	1.0	4.7	15.1	18.8	33.7	0.5	(NA)	(NA)
35	Machinery, except electrical --	-	15	3	0.5	6.2	0.3	0.6	3.8	11.9	13.1	24.2	0.6	0.6	17.0
	East Windsor twp -----	-	15	8	2.7	44.3	0.3	0.4	4.5	32.1	14.9	47.5	(D)	(NA)	(NA)
	Eatontown -----	-	15	4	0.9	12.7	0.6	1.3	7.0	29.8	12.9	41.8	1.3	0.8	13.5
	Edgewater -----	-	31	13	1.6	24.9	1.0	1.9	12.6	44.6	192.1	245.1	1.3	2.2	57.5
	Edison twp -----	-	146	79	15.5	223.2	10.1	19.5	127.7	588.7	959.3	1 534.6	28.2	12.8	407.9
20	Food and kindred products --	-	9	5	0.6	8.7	0.4	0.8	5.2	27.7	76.5	105.2	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	13	11	4.4	64.6	2.9	6.1	35.8	272.7	148.8	410.6	7.7	3.1	136.2
30	Rubber and miscellaneous plastics products -----	-	17	12	0.9	11.6	0.8	1.5	8.4	26.6	40.6	66.5	2.0	0.9	20.8
34	Fabricated metal products ---	-	15	9	1.3	21.1	1.0	2.1	14.9	61.0	72.4	132.7	5.1	0.6	17.8
341	Metal cans and shipping containers -----	-	8	5	0.8	15.6	0.7	1.4	12.1	49.3	64.0	112.7	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	6	3	0.8	7.7	0.5	0.6	2.1	34.0	37.3	67.1	(D)	(NA)	(NA)
--	Administrative and auxiliary --	-	17	9	1.4	21.8	-	-	-	-	-	-	-	(NA)	(NA)
	Egg Harbor City -----	-	21	8	0.8	7.5	0.7	1.3	6.4	13.0	8.5	21.3	0.2	1.5	21.7
	Elizabeth -----	-	237	109	17.2	219.1	11.5	22.4	124.0	453.1	653.8	1 089.5	34.1	15.4	301.4
20	Food and kindred products --	-	18	10	1.7	23.0	1.2	2.5	14.5	65.4	161.3	223.8	3.0	1.8	68.7
27	Printing and publishing -----	-	27	5	1.7	19.9	1.0	2.1	11.2	65.5	17.0	77.3	2.3	1.6	26.0
28	Chemicals and allied products -----	-	19	9	1.1	16.2	0.7	1.5	9.7	40.6	102.3	142.9	12.0	0.9	30.4
30	Rubber and miscellaneous plastics products -----	-	11	5	0.7	7.5	0.5	0.9	4.4	22.9	15.6	37.3	(D)	(NA)	(NA)
3079	Miscellaneous plastics products -----	-	11	5	0.7	7.5	0.5	0.9	4.4	22.9	15.6	37.3	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	28	10	1.2	15.7	0.7	1.3	8.2	29.4	32.7	63.4	3.5	0.8	14.7
35	Machinery, except electrical --	-	23	7	0.5	6.4	0.3	0.6	3.4	10.9	8.2	19.5	0.2	0.7	11.3
	Elmwood Park -----	-	70	34	3.5	35.5	2.6	5.1	22.2	104.3	94.8	197.4	17.7	(NA)	(NA)
	Englewood -----	-	116	48	3.4	44.6	2.2	4.6	24.4	120.5	104.9	224.4	5.1	3.4	74.8
20	Food and kindred products --	-	9	8	0.5	7.6	0.2	0.4	3.7	17.4	31.3	48.8	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	10	6	0.5	5.2	0.4	0.8	3.5	11.7	9.2	20.7	(D)	(NA)	(NA)
	Ewing twp -----	-	57	20	5.4	96.7	4.5	8.3	77.3	211.7	109.2	317.0	12.4	5.1	115.6
	Fairfield -----	-	206	76	5.8	75.3	3.9	7.3	40.2	145.2	115.9	259.8	6.0	5.6	102.9
27	Printing and publishing -----	-	28	8	0.7	7.8	0.5	0.9	4.9	15.9	8.5	24.8	0.4	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies.
For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Fairfield—Con.														
34	Fabricated metal products ---	E1	26	9	0.5	6.1	0.4	0.8	3.8	13.4	10.0	22.6	0.5	0.5	11.6
35	Machinery, except electrical --	E1	61	21	1.8	22.5	1.3	2.4	13.3	44.7	43.1	88.5	(D)	1.6	23.2
36	Electric and electronic equipment -----	-	25	9	1.0	14.3	0.7	1.4	6.9	30.1	21.3	49.9	1.5	1.4	29.7
	Fair Lawn-----	-	72	36	5.0	67.8	3.5	7.0	42.0	192.4	153.3	340.7	6.9	4.6	121.0
28	Chemicals and allied products -----	-	9	5	0.7	9.1	0.5	0.9	5.2	32.8	39.1	70.9	(D)	0.7	23.4
	Fairview-----	-	129	24	1.6	17.9	1.4	2.7	12.9	29.2	38.4	67.4	1.0	1.3	22.0
23	Apparel and other textile products -----	E4	88	10	0.8	7.9	0.7	1.4	6.4	13.0	9.2	22.1	(D)	0.8	11.1
	Flemington-----	-	35	16	1.1	15.7	0.7	1.3	7.5	33.2	117.2	150.3	3.1	1.6	43.5
	Florham Park-----	-	14	9	4.1	83.8	1.0	1.6	12.9	83.3	44.4	124.2	(D)	(D)	(D)
	Fort Lee-----	-	40	9	0.8	11.2	0.3	0.6	2.9	12.2	10.4	22.2	0.3	0.7	6.3
	Franklin twp-----	-	53	23	2.5	33.5	1.7	3.2	19.2	65.5	85.1	147.6	6.4	1.4	24.2
36	Electric and electronic equipment -----	E5	5	3	0.6	7.9	0.4	0.8	4.4	11.9	6.8	17.8	3.1	(NA)	(NA)
	Franklin Lakes-----	-	29	6	1.6	38.3	0.2	0.4	1.9	10.0	10.1	19.7	0.2	3.2	5.0
	Freehold twp-----	-	20	13	2.4	28.7	1.7	3.5	17.8	87.5	79.6	165.9	2.7	1.6	43.3
	Garfield-----	-	133	43	4.2	48.1	3.2	6.1	30.0	99.7	96.6	195.9	4.6	4.8	66.7
23	Apparel and other textile products -----	E1	32	14	0.9	6.0	0.8	1.4	5.3	7.6	2.8	10.4	(Z)	1.1	9.3
28	Paper and allied products ---	-	7	5	0.6	11.8	0.5	1.0	7.7	31.0	36.0	67.0	(D)	(NA)	(NA)
34	Fabricated metal products ---	E1	14	3	0.7	7.7	0.6	1.1	5.0	12.5	7.2	20.2	0.4	0.6	7.3
	Garwood-----	-	38	15	1.8	21.4	1.4	2.8	13.9	44.1	34.9	78.7	2.0	1.7	28.7
	Glassboro-----	-	26	10	1.1	13.1	0.9	1.6	9.5	27.9	37.6	65.6	0.9	1.2	18.6
	Glen Rock-----	-	18	4	0.7	7.8	0.1	0.3	1.4	9.2	4.5	13.8	0.1	0.8	2.2
	Gloucester twp-----	-	36	15	1.2	12.6	0.9	1.8	7.9	29.9	26.5	55.9	0.5	1.0	17.3
	Gloucester City-----	-	33	12	1.2	15.9	0.9	1.8	11.1	46.5	63.5	108.9	3.5	1.3	21.7
	Guttenberg-----	-	83	10	0.8	7.4	0.7	1.3	5.5	15.6	12.7	28.3	0.8	0.8	11.9
23	Apparel and other textile products -----	E2	57	7	0.5	4.4	0.4	0.9	3.6	8.3	5.9	14.3	(D)	0.5	7.0
	Hackensack-----	-	196	48	5.1	58.1	3.5	6.5	32.3	120.1	92.0	209.5	7.7	6.2	103.1
27	Printing and publishing -----	-	40	6	1.3	17.9	0.6	1.2	7.6	40.8	16.3	56.9	(D)	1.4	28.1
34	Fabricated metal products ---	E4	27	8	0.5	5.9	0.4	0.7	3.5	9.0	10.0	19.0	(D)	(NA)	(NA)
35	Machinery, except electrical --	E1	32	5	0.6	7.0	0.4	0.7	3.9	14.2	12.5	27.0	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	14	6	0.6	6.1	0.5	0.9	3.9	12.0	7.5	18.8	(D)	0.7	10.3
	Haledon-----	-	24	9	1.1	13.5	0.9	1.7	8.9	25.6	66.1	90.2	1.3	1.0	16.6
	Hamilton twp-----	-	88	31	5.1	65.4	3.8	7.7	45.8	149.6	170.7	322.3	5.9	4.1	105.8
	Hammonont-----	-	35	10	2.2	22.2	1.9	3.4	17.7	122.7	34.8	156.4	1.0	2.6	106.9
	Hanover twp-----	-	69	36	7.6	130.7	2.7	5.5	31.9	142.1	132.3	261.7	15.9	8.4	89.0

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
28	Hanover twp—Con. Chemicals and allied products -----	E6	8	6	1.0	15.7	0.5	1.1	6.3	32.9	31.2	61.5	10.4	0.5	15.0
36	Electric and electronic equipment -----	-	8	5	0.9	10.5	0.5	0.9	4.3	20.1	12.1	30.8	(D)	0.8	16.1
	Harrison -----	-	42	19	4.3	62.6	2.5	5.2	29.2	124.0	119.3	239.3	10.9	9.5	140.4
35	Machinery, except electrical --	-	10	4	1.2	19.1	0.6	1.2	8.4	40.0	23.7	61.3	(D)	(NA)	(NA)
	Hawthorne -----	-	103	39	2.8	36.1	2.1	4.2	23.0	75.8	78.6	153.9	2.8	3.3	59.3
30	Rubber and miscellaneous plastics products -----	-	9	6	0.6	7.2	0.5	0.9	4.1	18.9	24.5	42.2	0.9	0.7	8.3
	Highland Park -----	-	18	6	0.6	8.7	0.4	0.7	4.6	18.2	9.8	28.0	0.1	5.5	9.1
	Hillsborough twp -----	-	21	7	0.5	7.2	0.4	0.8	4.7	59.3	45.0	106.4	5.1	(NA)	(NA)
	Hillside twp -----	-	110	46	5.6	78.0	3.6	7.0	44.0	247.4	202.9	449.5	10.6	5.2	196.0
30	Rubber and miscellaneous plastics products -----	-	6	5	0.6	4.6	0.4	0.9	3.2	6.2	10.9	16.8	0.9	0.6	6.3
3079	Miscellaneous plastics products -----	-	6	5	0.6	4.6	0.4	0.9	3.2	6.2	10.9	16.8	0.9	(NA)	(NA)
34	Fabricated metal products ---	-	14	6	0.7	12.2	0.5	1.1	8.8	19.3	27.8	47.3	0.4	1.3	33.6
35	Machinery, except electrical --	-	20	5	0.6	9.5	0.4	0.8	4.5	25.2	10.5	37.3	(D)	0.6	10.3
	Hoboken -----	-	189	99	8.5	101.1	6.9	14.1	74.0	161.8	519.0	574.3	8.7	11.2	282.5
23	Apparel and other textile products -----	E5	90	61	3.4	22.8	3.1	5.3	18.6	32.9	13.6	46.4	(D)	4.0	29.5
	Irrington -----	-	121	32	2.7	33.3	2.0	3.9	19.8	66.7	64.1	131.0	2.1	6.1	56.1
34	Fabricated metal products ---	-	15	3	0.5	5.0	0.4	0.9	3.8	9.5	10.6	20.4	0.5	(NA)	(NA)
	Jersey City -----	-	402	166	19.1	220.8	13.4	24.1	133.1	649.8	633.1	1 206.8	(D)	23.2	576.9
20	Food and kindred products --	-	31	10	1.4	17.9	0.9	1.7	9.3	60.7	73.3	134.8	(D)	2.1	48.2
22	Textile mill products -----	E6	25	5	0.5	4.7	0.4	1.0	3.7	9.8	8.4	17.7	(D)	0.8	11.9
23	Apparel and other textile products -----	E1	88	49	3.3	26.6	3.0	5.1	20.2	53.3	72.7	125.1	(D)	3.5	47.5
233	Women's and misses' outerwear -----	E2	43	26	1.6	10.8	1.4	2.2	8.1	26.3	19.6	45.7	(D)	(NA)	(NA)
2337	Women's and misses' suits and coats -----	E1	15	12	0.7	4.6	0.6	1.0	3.6	15.6	13.3	28.8	(D)	(NA)	(NA)
26	Paper and allied products ---	-	18	11	1.1	13.3	0.8	1.5	8.1	23.5	26.4	50.4	(D)	1.6	21.8
27	Printing and publishing -----	E1	44	12	1.0	14.6	0.6	1.2	8.4	25.0	11.9	39.4	(D)	1.6	24.2
28	Chemicals and allied products -----	-	35	20	3.8	58.6	2.2	4.4	33.4	306.1	277.2	585.0	(D)	4.1	255.1
284	Soaps, cleaners, and toilet goods -----	-	10	5	2.9	45.0	1.7	3.3	26.5	263.4	196.9	462.3	10.0	(NA)	(NA)
31	Leather and leather products -----	-	4	4	0.5	4.0	0.4	0.8	2.9	9.6	12.3	20.6	(D)	0.5	4.6
32	Stone, clay, and glass products -----	-	9	2	0.6	8.5	0.5	1.0	6.6	15.8	16.7	33.1	(D)	0.7	13.4
34	Fabricated metal products ---	E1	31	11	0.7	10.3	0.6	1.2	7.4	18.9	27.0	45.5	(D)	1.7	33.5
35	Machinery, except electrical --	-	22	5	1.0	15.4	0.6	1.1	7.0	23.5	12.5	36.5	(D)	1.5	43.3
38	Instruments and related products -----	-	7	5	1.0	2.7	0.6	0.4	1.2	9.2	8.7	18.9	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	28	11	1.3	11.2	0.9	1.6	6.7	22.5	22.4	44.3	(D)	1.1	17.1

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies.
For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Jersey City—Con.														
39	Miscellaneous manufacturing industries—Con.														
399	Miscellaneous manufactures -----	-	15	5	0.5	4.1	0.4	0.6	2.3	8.3	7.7	15.9	(D)	(NA)	(NA)
-	Administrative and auxiliary --	-	11	3	0.5	4.1	-	-	-	-	-	-	-	(NA)	(NA)
	Kearny -----	-	130	62	11.8	185.5	8.4	15.5	118.2	425.4	455.8	878.9	17.6	17.6	373.0
20	Food and kindred products --	-	9	5	0.6	9.5	0.4	0.6	5.8	58.7	101.9	159.8	(D)	0.9	33.7
28	Chemicals and allied products -----	-	19	13	1.1	17.5	0.6	1.3	8.8	63.5	130.1	193.5	(D)	1.3	38.2
30	Rubber and miscellaneous plastics products -----	E3	15	10	0.7	7.4	0.6	1.3	5.5	17.6	20.3	37.8	(D)	(NA)	(NA)
	Kenilworth -----	-	113	43	5.7	81.7	3.4	6.9	39.6	149.9	123.0	269.8	9.2	5.5	105.4
33	Primary metal industries -----	-	10	5	0.5	6.7	0.4	0.9	4.9	15.4	22.7	37.3	0.2	(NA)	(NA)
34	Fabricated metal products ---	-	30	9	1.0	15.4	0.7	1.5	9.7	31.5	27.7	58.1	1.2	0.8	19.5
35	Machinery, except electrical --	-	33	9	1.4	17.3	1.0	2.0	10.9	33.9	18.2	50.7	1.5	1.3	24.9
354	Metalworking machinery ---	-	14	4	0.7	10.1	0.5	1.1	6.9	17.5	8.1	24.8	1.3	(NA)	(NA)
	Keyport -----	-	21	7	0.5	5.6	0.4	0.8	3.8	16.4	33.7	49.9	1.5	0.7	8.5
	Lakewood twp -----	-	64	22	3.3	33.2	2.8	5.6	23.4	68.3	56.7	121.8	4.1	1.8	23.2
36	Electric and electronic equipment -----	-	9	5	0.8	7.8	0.7	1.4	5.7	11.3	11.3	22.6	(D)	(NA)	(NA)
	Lawrence twp -----	-	22	12	2.7	46.5	0.8	1.6	7.8	25.3	17.9	43.1	1.0	1.7	15.5
	Linden -----	-	205	94	16.9	308.6	11.6	24.3	187.8	916.8	3 716.4	4 623.2	57.5	18.8	527.2
20	Food and kindred products --	-	13	6	0.6	9.6	0.4	0.8	6.2	10.4	87.3	100.6	0.6	0.6	16.9
28	Chemicals and allied products -----	-	18	12	2.8	54.8	1.7	3.6	30.3	226.0	254.4	477.8	34.0	3.1	106.4
286	Industrial organic chemicals -----	-	5	4	1.8	36.4	1.1	2.5	21.2	182.4	192.2	372.6	(D)	(NA)	(NA)
2869	Industrial organic chemicals, n.e.c. -----	-	5	4	1.8	36.4	1.1	2.5	21.2	182.4	192.2	372.6	(D)	(NA)	(NA)
341	Metal cans and shipping containers -----	-	4	4	0.6	9.0	0.4	0.8	5.8	16.0	19.7	35.7	0.5	(NA)	(NA)
3412	Metal barrels, drums, and pails -----	-	4	4	0.6	9.0	0.4	0.8	5.8	16.0	19.7	35.7	0.5	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	15	6	0.5	6.2	0.5	0.9	4.2	15.1	13.9	28.8	0.2	1.0	13.5
	Little Falls twp -----	-	46	21	2.0	23.2	1.4	2.7	13.9	46.8	48.1	94.9	3.0	4.4	43.5
30	Rubber and miscellaneous plastics products -----	-	8	5	0.7	7.0	0.5	1.0	3.7	18.5	10.6	28.9	(D)	0.8	10.1
	Little Ferry -----	-	48	17	1.0	12.8	0.7	1.5	8.2	35.4	22.9	54.4	2.3	1.1	19.9
	Livingston twp -----	-	51	15	3.7	66.3	0.7	1.6	7.5	30.3	18.4	50.0	(D)	3.2	27.2
	Lodi -----	-	79	30	2.5	30.7	1.7	3.4	15.7	58.8	85.0	144.9	5.0	3.0	45.2
	Long Branch -----	-	43	15	1.2	10.5	1.0	1.8	6.7	18.0	12.1	29.8	0.5	1.4	15.0
23	Apparel and other textile products -----	E1	16	10	0.7	5.2	0.6	1.2	4.0	7.8	5.8	13.4	0.2	0.9	7.0
	Maple Shade twp -----	-	31	9	0.7	7.9	0.4	0.7	3.6	12.0	17.5	29.6	1.1	0.8	11.3
	Maplewood twp -----	-	38	6	0.7	7.8	0.5	1.0	5.1	12.5	11.5	24.0	0.9	0.8	11.6
	Marlboro twp -----	-	26	10	0.7	8.3	0.5	0.9	4.9	14.4	15.6	31.0	0.9	0.8	12.3
	Maywood -----	-	18	10	0.8	9.3	0.5	1.0	5.6	22.2	29.9	53.3	1.9	0.8	19.6
	Metuchen -----	-	44	15	1.2	15.6	1.0	1.9	9.3	61.6	45.7	102.4	1.0	1.3	35.8
	Middlesex -----	-	92	25	2.2	27.4	1.6	3.5	16.3	74.1	89.3	134.6	4.0	1.9	40.7

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Midland Park -----	-	34	6	0.6	7.8	0.4	0.8	4.1	17.5	14.0	31.3	(D)	0.7	17.4
	Milltown -----	-	11	6	0.9	11.7	0.7	1.4	7.9	16.8	37.8	54.1	1.4	1.5	27.6
	Millville -----	-	56	22	6.4	81.7	5.2	10.0	59.7	178.6	114.0	292.0	15.4	7.9	110.8
	Monroe twp -----	-	25	11	1.0	8.2	0.8	1.3	6.0	14.3	7.5	21.5	0.6	0.5	6.8
	Montclair -----	-	51	10	0.8	9.5	0.5	0.9	3.8	11.1	6.7	17.5	0.5	(NA)	(NA)
	Montvale -----	-	16	8	1.4	36.2	0.1	0.3	1.7	5.8	6.0	11.8	0.3	(D)	(D)
	Administrative and auxiliary --	-	5	5	1.2	33.4	-	-	-	-	-	-	-	(NA)	(NA)
	Montville twp -----	-	43	13	1.2	14.8	0.6	1.2	6.5	21.5	17.2	38.4	1.0	0.7	9.3
	Moonachie -----	-	60	39	4.3	49.5	3.1	6.1	31.3	102.9	111.9	212.7	7.6	3.8	72.7
	Moorestown twp -----	-	51	19	4.4	78.7	3.0	5.8	50.6	139.4	125.4	264.3	4.7	3.9	105.1
34	Fabricated metal products ---	-	5	4	0.5	7.0	0.3	0.6	3.6	14.0	11.8	25.6	0.4	(NA)	(NA)
	Morris twp -----	-	30	16	5.1	110.7	0.7	1.5	8.7	83.8	71.8	155.3	1.7	(D)	(D)
	Morristown -----	-	28	4	0.9	8.8	0.3	0.6	3.9	16.8	8.8	25.3	0.5	3.9	112.7
27	Printing and publishing -----	-	13	2	0.5	4.7	0.2	0.2	2.1	9.5	3.6	12.9	0.2	(NA)	(NA)
	Mountainside -----	-	38	20	1.7	24.1	1.1	2.3	13.8	44.9	35.7	79.0	3.3	1.7	28.6
34	Fabricated metal products ---	-	6	5	0.6	9.0	0.4	0.9	6.0	18.1	15.7	33.4	2.0	0.9	18.0
	Mount Holly twp -----	-	27	12	1.0	9.0	0.8	1.4	6.2	14.2	13.8	27.7	1.0	1.0	13.8
22	Textile mill products -----	E1	5	5	0.5	4.2	0.4	0.9	3.3	6.2	7.0	13.1	(D)	(NA)	(NA)
	Mount Laurel twp -----	-	19	6	1.2	12.0	0.8	1.5	6.7	19.1	13.1	32.7	1.2	(D)	(D)
35	Machinery, except electrical --	E2	7	3	0.9	9.4	0.6	1.2	5.2	13.5	9.0	23.0	1.1	(NA)	(NA)
	Neptune twp -----	-	31	15	1.0	9.0	0.8	1.5	5.7	15.4	13.9	29.2	0.9	1.0	15.0
	Newark -----	-	906	367	38.6	489.0	27.6	52.8	297.6	1 058.0	1 345.8	2 396.6	51.2	47.3	803.8
20	Food and kindred products --	-	53	27	4.6	73.6	3.3	6.2	50.6	189.5	364.6	553.3	7.4	4.8	97.7
205	Bakery products -----	-	14	7	1.2	14.4	0.6	1.3	7.3	30.3	23.9	54.2	(D)	(NA)	(NA)
23	Apparel and other textile products -----	E1	107	61	4.4	31.5	3.9	7.1	24.4	60.4	47.8	107.2	2.0	5.6	49.1
233	Women's and misses' outerwear -----	E6	58	30	1.7	11.9	1.6	2.8	9.8	17.8	7.4	25.1	(D)	(NA)	(NA)
2335	Women's and misses' dresses -----	E1	31	12	0.5	2.9	0.4	0.7	2.3	4.4	2.5	6.9	(D)	(NA)	(NA)
2337	Women's and misses' suits and coats -----	E4	18	12	0.7	5.5	0.7	1.2	4.4	8.9	4.3	13.1	(D)	(NA)	(NA)
26	Paper and allied products ---	-	35	21	1.9	28.4	1.5	3.1	17.6	55.4	66.9	122.3	4.3	2.0	38.5
265	Paperboard containers and boxes -----	-	17	13	1.2	19.1	0.9	1.9	11.3	34.1	39.4	73.4	3.6	(NA)	(NA)
27	Printing and publishing -----	-	72	11	2.4	30.8	1.2	2.2	17.5	71.0	46.0	116.8	1.2	3.1	60.2
28	Chemicals and allied products -----	-	92	45	4.3	67.7	2.7	5.5	36.8	214.1	329.4	539.1	16.1	5.1	141.7
284	Soaps, cleaners, and toilet goods -----	-	11	5	0.5	6.3	0.2	0.5	2.4	22.6	19.6	42.2	0.8	(NA)	(NA)
2851	Paints and allied products -----	-	21	10	0.9	14.4	0.6	1.1	6.8	47.3	52.1	99.5	0.7	(NA)	(NA)
286	Industrial organic chemicals -----	-	19	11	1.1	20.4	0.8	1.6	12.4	57.9	110.1	165.2	6.6	(NA)	(NA)
2865	Cyclic crudes and intermediates -----	-	8	6	0.9	16.2	0.6	1.3	9.9	50.4	84.6	131.2	5.6	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	E1	38	20	1.8	20.1	1.3	2.6	11.9	50.3	48.8	98.6	1.9	2.1	35.5

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies.
For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Newark—Con.														
30	Rubber and miscellaneous plastics products—Con.														
3079	Miscellaneous plastics products-----	E1	33	18	1.7	18.6	1.2	2.4	10.7	47.8	43.9	91.2	1.8	(NA)	(NA)
33	Primary metal industries-----	-	30	17	1.7	25.8	1.2	2.4	16.4	44.3	120.1	168.7	5.5	2.5	55.2
34	Fabricated metal products ---	E1	145	41	3.9	46.8	3.2	6.4	34.2	90.9	56.1	147.2	4.2	4.8	78.4
342	Cutlery, hand tools, and hardware-----	-	14	6	1.3	16.5	1.1	2.2	12.6	37.1	14.4	51.3	2.2	(NA)	(NA)
344	Fabricated structural metal products-----	E2	32	11	0.7	8.1	0.5	1.1	5.8	14.4	15.1	30.0	0.5	(NA)	(NA)
346	Metal forgings and stampings-----	E1	17	6	0.5	5.4	0.4	0.7	4.1	9.2	6.0	15.3	0.7	(NA)	(NA)
347	Metal services, n.e.c.-----	-	40	5	0.5	6.0	0.4	0.9	4.2	10.6	5.1	15.6	0.2	(NA)	(NA)
35	Machinery, except electrical--	E1	79	20	1.0	12.7	0.8	1.5	8.2	22.1	14.5	36.6	1.1	1.1	20.1
36	Electric and electronic equipment-----	-	49	19	3.3	42.0	2.4	4.5	25.8	83.2	57.4	138.8	1.7	4.8	81.8
37	Transportation equipment ---	-	13	6	0.6	6.3	0.4	0.8	4.0	23.1	33.6	54.7	0.6	(NA)	(NA)
38	Instruments and related products-----	-	14	8	1.8	21.0	1.3	2.3	11.6	35.3	22.1	57.5	0.7	1.8	29.1
39	Miscellaneous manufacturing industries-----	E2	71	28	2.2	22.3	1.7	3.1	14.2	47.4	45.3	91.9	1.2	3.1	40.6
391	Jewelry, silverware, and plated ware-----	E4	28	7	0.9	9.6	0.7	1.3	6.4	20.7	23.8	44.1	0.2	(NA)	(NA)
3911	Jewelry, precious metal--	E4	20	6	0.7	7.6	0.5	1.0	4.9	18.5	20.3	38.5	(D)	(NA)	(NA)
399	Miscellaneous manufactures-----	-	24	13	0.8	8.4	0.7	1.2	5.0	16.8	11.0	27.6	0.6	(NA)	(NA)
--	Administrative and auxiliary --	-	17	10	1.2	23.1	-	-	-	-	-	-	-	(NA)	(NA)
	New Brunswick twp-----	-	94	47	6.0	92.5	3.3	6.4	39.2	133.0	185.9	310.5	7.4	7.1	127.1
27	Printing and publishing-----	-	18	3	0.5	6.7	0.3	0.5	2.5	11.9	5.0	16.8	0.5	(NA)	(NA)
33	Primary metal industries-----	-	3	3	0.5	7.7	0.4	0.9	6.2	23.4	47.3	67.7	0.4	(NA)	(NA)
335	Nonferrous rolling and drawing-----	-	3	3	0.5	7.7	0.4	0.9	6.2	23.4	47.3	67.7	0.4	(NA)	(NA)
	New Providence-----	-	25	15	6.5	130.5	1.2	2.5	11.1	57.7	57.1	113.6	1.3	7.3	41.4
	Newton-----	-	26	8	0.5	5.2	0.3	0.6	2.8	11.9	9.0	21.0	0.3	0.7	9.7
	North Arlington-----	-	24	5	0.5	5.9	0.3	0.6	2.3	11.9	7.5	18.5	1.0	0.7	11.0
	North Bergen twp-----	-	207	73	8.3	98.4	6.6	12.6	67.7	210.3	324.0	530.6	6.9	11.1	189.2
22	Textile mill products-----	E1	26	10	0.7	7.0	0.6	1.2	5.8	11.1	6.3	17.5	(D)	1.2	13.6
23	Apparel and other textile products-----	E1	78	29	2.8	28.9	2.1	3.8	17.3	70.8	133.3	203.0	(D)	3.1	67.1
2337	Women's and misses' suits and coats-----	E7	7	6	0.8	6.6	0.7	1.1	4.5	12.6	20.3	33.5	(D)	(NA)	(NA)
36	Electric and electronic equipment-----	E1	10	6	0.9	9.5	0.8	1.5	6.9	15.3	14.6	29.6	(D)	1.7	14.2
	North Brunswick twp-----	-	27	14	7.8	138.5	4.5	9.5	68.7	430.0	259.1	674.9	28.0	9.2	315.0
	North Plainfield-----	-	20	6	1.8	31.7	1.2	2.3	17.1	46.5	28.0	72.8	(D)	0.5	5.7
	Northvale-----	-	46	25	2.2	25.9	1.5	2.9	13.5	66.5	86.9	153.1	2.1	1.8	40.5
	Norwood-----	-	31	11	1.0	11.1	0.7	1.3	5.9	19.7	21.2	40.7	2.1	0.6	11.5
	Nutley-----	-	46	15	10.1	211.9	3.9	8.0	53.5	615.3	221.3	864.7	29.5	10.3	446.8
	Oakland-----	-	27	14	1.3	15.5	0.8	1.6	8.0	51.2	34.0	83.9	1.6	0.6	8.2
	Old Bridge twp-----	-	13	8	0.5	5.0	0.3	0.7	3.3	12.3	8.7	20.9	1.3	(NA)	(NA)
	Orange-----	-	76	22	2.4	30.6	1.3	2.4	12.5	35.7	22.8	58.3	1.2	3.0	37.0

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Palisades Park -----	-	58	14	1.6	22.6	1.0	1.9	10.5	66.0	100.2	165.8	3.6	2.0	35.7
	Paramus -----	-	61	25	2.8	39.4	1.2	2.1	11.9	48.0	44.8	89.9	1.8	2.2	27.1
-	Administrative and auxiliary --	-	5	4	0.9	15.2	-	-	-	-	-	-	-	(NA)	(NA)
	Parsippany-Troy Hills twp ---	-	54	34	5.0	78.6	2.2	4.4	22.1	181.1	118.1	293.4	3.9	4.1	116.9
34	Fabricated metal products ---	-	7	4	0.9	12.5	0.5	1.0	5.8	26.8	11.2	37.3	0.8	1.2	23.7
36	Electric and electronic equipment -----	-	6	4	0.6	6.8	0.4	0.8	3.2	12.8	10.4	22.9	0.4	(NA)	(NA)
38	Instruments and related products -----	-	4	4	0.9	12.0	0.5	0.8	4.6	29.9	19.6	48.1	0.8	(NA)	(NA)
-	Administrative and auxiliary --	-	11	10	1.5	32.1	-	-	-	-	-	-	-	(NA)	(NA)
	Passaic -----	-	233	109	10.4	108.9	8.1	15.7	75.4	210.4	215.0	423.6	8.1	14.3	212.5
22	Textile mill products -----	E5	26	14	1.2	12.1	1.0	2.1	9.4	23.6	24.3	47.6	(D)	1.2	20.5
23	Apparel and other textile products -----	E2	71	44	3.5	24.8	3.1	5.4	20.3	40.1	29.0	69.3	(D)	3.7	31.4
27	Printing and publishing -----	E2	20	5	0.9	9.1	0.2	0.4	3.4	14.7	4.8	19.4	0.6	0.6	10.2
30	Rubber and miscellaneous plastics products -----	E1	11	7	1.1	16.1	0.8	1.8	11.0	29.0	56.1	83.5	2.1	3.0	58.4
34	Fabricated metal products ---	-	20	8	1.1	16.7	0.9	2.0	12.5	28.9	30.7	60.7	0.6	1.4	27.6
35	Machinery, except electrical --	-	14	6	0.5	7.2	0.3	0.6	3.6	19.1	11.1	29.5	0.3	0.7	11.5
	Paterson -----	-	567	233	18.6	214.0	14.5	27.8	143.1	470.4	502.8	971.8	22.8	23.7	370.7
20	Food and kindred products --	-	26	13	0.9	13.6	0.6	1.2	7.2	60.6	80.8	141.3	1.8	1.6	55.2
22	Textile mill products -----	-	77	43	3.9	50.0	3.1	6.6	38.2	85.6	82.7	168.7	(D)	5.7	83.7
2262	Finishing plants, synthetics -----	-	23	20	1.9	27.0	1.5	3.3	22.0	45.6	28.8	75.4	3.8	(NA)	(NA)
27	Printing and publishing -----	E2	42	12	0.7	9.3	0.5	1.1	6.7	14.9	9.5	24.3	(D)	1.1	16.7
28	Chemicals and allied products -----	E1	45	20	1.3	17.8	0.8	1.6	8.7	57.7	84.7	142.2	3.2	0.9	27.3
30	Rubber and miscellaneous plastics products -----	E4	26	11	1.2	11.1	0.9	1.7	7.1	26.1	27.0	52.9	3.2	0.6	9.3
34	Fabricated metal products ---	-	51	15	1.3	19.2	1.1	1.9	14.6	40.5	42.0	82.5	(D)	2.0	29.9
35	Machinery, except electrical --	E1	70	17	1.5	20.8	1.1	2.1	12.8	36.2	24.7	60.6	1.1	1.9	31.3
355	Special industry machinery -	E1	21	6	0.5	6.9	0.3	0.7	4.0	12.2	9.5	21.4	0.5	(NA)	(NA)
356	General industrial machinery -----	-	12	3	0.5	7.3	0.4	0.7	4.6	11.9	8.9	20.3	0.2	(NA)	(NA)
36	Electric and electronic equipment -----	E3	34	16	2.3	22.7	1.8	3.4	15.3	39.4	34.4	73.4	2.4	2.2	25.6
364	Electric lighting and wiring equipment -----	E2	12	7	0.9	8.9	0.7	1.2	5.3	17.5	13.6	30.8	0.6	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	E4	34	9	0.5	4.2	0.4	0.8	2.7	8.3	7.4	15.7	(D)	0.7	6.2
	Paulsboro -----	-	11	8	0.5	5.2	0.4	0.7	3.7	21.3	25.9	47.1	0.8	1.2	4.6
	Pennsauken twp -----	-	161	71	6.8	82.8	5.0	9.5	53.0	192.6	318.5	508.7	11.5	7.0	148.0
20	Food and kindred products --	-	15	12	1.2	13.7	0.9	1.7	8.5	59.9	121.6	181.1	4.3	0.7	28.6
27	Printing and publishing -----	E1	32	14	1.4	18.2	1.0	1.8	12.1	37.3	20.0	56.9	2.0	0.5	16.0

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Pennsauken twp—Con.														
34	Fabricated metal products ---	E1	20	8	0.6	7.4	0.5	0.9	5.0	12.5	15.6	28.1	1.2	1.1	18.1
35	Machinery, except electrical --	E2	28	7	0.6	7.6	0.4	0.9	4.7	15.1	8.3	23.2	0.8	0.5	8.5
	Perth Amboy -----	-	96	43	4.5	48.4	3.5	6.6	32.7	202.6	644.1	544.4	17.2	7.8	128.6
23	Apparel and other textile products -----	-	20	17	1.8	11.0	1.6	2.7	8.8	18.2	12.0	30.2	0.3	1.6	11.5
	Phillipsburg -----	-	37	21	5.5	78.8	3.3	6.5	42.6	169.3	175.5	354.9	14.6	5.5	99.3
23	Apparel and other textile products -----	-	6	5	0.5	3.5	0.4	0.6	2.6	5.5	4.4	9.9	(Z)	(NA)	(NA)
	Piscataway twp -----	-	63	43	7.0	110.7	3.2	6.1	35.5	173.9	166.4	334.9	16.4	4.3	96.0
28	Chemicals and allied products -----	-	6	5	1.0	14.0	0.7	1.4	9.7	74.5	48.7	118.3	7.5	0.7	40.7
30	Rubber and miscellaneous plastics products -----	-	10	9	1.1	11.6	0.9	1.8	8.6	25.7	23.8	49.1	5.2	0.6	9.6
34	Fabricated metal products ---	-	9	7	1.0	14.1	0.6	1.3	8.5	36.3	31.5	66.9	1.1	1.1	26.4
35	Machinery, except electrical --	-	9	5	1.0	13.5	0.5	1.0	5.8	25.2	42.4	68.5	2.1	(NA)	(NA)
-	Administrative and auxiliary --	-	13	11	2.5	53.3	-	-	-	-	-	-	-	(NA)	(NA)
	Pitman -----	-	21	6	2.3	25.2	1.9	3.9	18.6	47.1	49.0	94.7	2.4	2.1	26.3
	Plainfield -----	-	72	23	2.2	25.8	1.7	4.7	16.5	57.9	52.2	110.3	1.4	2.6	50.5
	Pleasantville -----	-	23	7	0.5	5.7	0.3	0.6	3.4	17.2	11.0	27.8	(D)	0.5	11.9
	Pompton Lakes -----	-	27	9	1.0	16.2	0.7	1.4	9.3	34.4	17.2	51.8	1.2	1.0	17.4
	Princeton -----	-	41	10	2.1	42.5	0.9	1.7	15.8	53.3	29.4	80.5	1.5	2.0	43.0
	Princeton twp -----	-	32	12	0.7	9.4	0.4	0.7	3.6	18.2	6.3	24.2	0.7	0.9	2.8
	Rahway -----	-	82	31	7.1	124.7	3.1	6.1	38.2	244.3	104.5	347.8	15.8	4.9	106.9
27	Printing and publishing -----	-	9	3	0.5	5.9	0.4	0.7	4.2	8.1	4.3	12.3	0.1	(NA)	(NA)
	Ramsey -----	-	21	9	0.8	10.9	0.3	0.6	3.1	11.9	9.8	21.7	0.8	0.5	6.7
	Randolph twp -----	-	29	5	0.5	5.6	0.3	0.5	3.1	12.3	11.8	23.2	0.8	(NA)	(NA)
	Red Bank -----	-	34	8	0.5	4.8	0.4	0.5	3.0	10.9	5.8	16.2	0.4	0.9	9.9
	Ridgefield -----	-	53	26	4.3	65.7	2.5	5.2	26.8	106.3	130.0	241.6	2.7	4.3	97.6
25	Paper and allied products ---	-	5	5	0.5	8.1	0.4	0.7	4.7	12.6	23.4	35.9	(D)	0.6	11.5
28	Chemicals and allied products -----	-	6	5	1.7	31.7	0.9	1.8	9.1	49.6	69.2	123.1	0.8	1.5	46.4
	Ridgefield Park -----	-	26	10	0.8	11.0	0.6	1.2	7.4	20.5	23.3	46.1	1.5	0.7	18.1
	Rockaway -----	-	35	10	1.0	13.0	0.7	1.4	6.7	27.0	17.0	44.4	0.8	1.4	30.3
34	Fabricated metal products ---	-	8	4	0.5	5.7	0.4	0.8	3.7	12.5	9.4	22.2	0.3	(NA)	(NA)
	Rockaway twp -----	-	21	11	1.9	24.5	1.2	2.4	13.4	55.3	52.3	105.8	2.6	1.3	25.7
	Roseland -----	-	21	13	1.9	25.5	1.2	2.0	12.0	60.8	72.8	130.2	2.7	1.4	30.3
	Roselle -----	-	92	29	2.1	23.3	1.6	2.9	15.7	42.1	40.5	82.6	3.7	2.6	43.5
27	Printing and publishing -----	E1	9	5	0.5	3.9	0.4	0.6	2.9	6.9	2.9	9.7	0.5	(NA)	(NA)
	Roselle Park -----	-	29	6	0.6	6.8	0.5	0.9	4.7	11.0	7.9	18.9	(D)	2.4	41.6

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Roxbury twp -----	-	27	9	1.0	12.1	0.7	1.5	8.3	28.4	21.8	49.6	1.1	0.8	15.6
	Rutherford -----	-	44	11	1.4	18.3	0.9	1.6	9.6	48.0	50.6	94.4	3.1	1.6	26.5
	Saddle Brook twp -----	-	77	34	4.0	47.3	2.8	5.6	27.7	94.8	95.4	191.3	5.8	3.4	53.9
27	Printing and publishing -----	E7	8	4	0.7	7.6	0.5	1.0	5.6	13.8	10.8	24.6	1.0	(NA)	(NA)
34	Fabricated metal products ---	-	15	9	1.3	14.0	1.0	2.0	9.9	34.3	34.5	68.6	4.0	0.5	9.7
	Salem -----	-	12	8	1.6	17.2	1.4	2.4	14.5	36.2	28.6	65.4	(D)	(D)	(D)
	Sayreville -----	-	33	13	4.5	77.5	3.2	6.2	46.0	235.2	273.2	500.9	9.0	3.6	111.7
28	Chemicals and allied products -----	-	5	5	1.7	27.0	1.2	2.4	18.4	92.9	118.6	206.6	3.8	(NA)	(NA)
	Secaucus -----	-	53	29	2.9	32.0	1.8	3.2	16.8	60.9	142.8	202.8	1.9	2.4	43.2
29	Apparel and other textile products -----	-	8	6	0.5	4.5	0.4	0.8	3.3	9.8	19.2	28.7	(D)	(NA)	(NA)
--	Administrative and auxiliary --	-	7	5	0.6	5.6	-	-	-	-	-	-	-	(NA)	(NA)
	Somerville -----	-	56	18	3.0	52.7	1.3	2.4	14.4	67.0	34.9	101.0	7.5	4.8	85.1
	South Brunswick twp -----	-	47	29	3.4	52.0	1.8	3.7	22.5	165.9	170.8	335.1	4.8	3.3	73.8
20	Food and kindred products --	-	3	3	0.5	5.1	0.4	0.8	3.7	41.0	47.8	89.6	(D)	(NA)	(NA)
26	Paper and allied products ---	-	3	3	0.6	9.7	0.4	1.0	6.3	26.5	38.4	63.6	1.5	(NA)	(NA)
--	Administrative and auxiliary --	-	6	5	0.5	10.8	-	-	-	-	-	-	-	(NA)	(NA)
	South Plainfield -----	-	124	59	5.4	66.8	3.8	7.8	38.6	154.9	225.8	379.3	5.8	4.3	89.3
30	Rubber and miscellaneous plastics products -----	E1	10	9	0.8	9.7	0.7	1.4	7.2	22.1	17.8	39.4	1.5	0.6	10.6
34	Fabricated metal products ---	E1	21	9	0.7	9.0	0.5	1.0	5.2	15.1	27.6	42.6	0.7	0.6	13.5
344	Fabricated structural metal products -----	E1	8	5	0.5	6.4	0.3	0.7	3.7	10.4	23.6	33.9	(D)	(NA)	(NA)
35	Machinery, except electrical --	E1	24	12	0.9	13.2	0.6	1.2	7.9	26.4	14.5	40.4	0.7	0.7	14.0
	South River -----	-	40	17	1.2	8.1	1.1	1.7	7.2	13.9	6.7	20.5	(D)	1.2	10.5
23	Apparel and other textile products -----	-	22	15	1.0	6.3	1.0	1.5	5.9	9.3	2.4	11.7	(D)	1.0	6.5
	Springfield twp -----	-	62	27	2.5	37.2	1.6	3.1	18.5	57.0	75.2	131.2	3.7	2.2	35.3
34	Fabricated metal products ---	-	9	8	0.7	9.8	0.6	1.2	7.6	17.9	11.7	29.2	0.9	0.5	9.3
	Summit -----	-	35	8	2.6	48.4	0.4	0.9	6.3	137.1	34.9	173.5	(D)	3.1	89.3
	Teaneck twp -----	-	39	14	1.5	15.4	0.7	1.4	5.8	22.8	18.4	41.0	0.6	1.0	9.7
--	Administrative and auxiliary --	-	5	3	0.5	6.5	-	-	-	-	-	-	-	(NA)	(NA)
	Tinton Falls -----	-	15	10	1.0	12.6	0.5	1.1	4.4	21.1	20.3	40.9	1.0	(NA)	(NA)
38	Instruments and related products -----	-	3	3	0.5	5.1	0.3	0.6	2.5	9.8	6.8	16.6	0.3	(NA)	(NA)
382	Measuring and controlling devices -----	-	3	3	0.5	5.1	0.3	0.6	2.5	9.8	6.8	16.6	0.3	(NA)	(NA)
	Totowa -----	-	48	27	3.8	51.9	2.1	4.1	26.8	154.7	118.8	273.2	9.2	3.2	72.8
28	Chemicals and allied products -----	-	7	4	0.5	6.8	0.3	0.6	3.0	22.3	25.5	49.3	5.2	0.7	20.1
	Union twp -----	-	191	94	10.5	142.6	6.3	12.4	76.6	424.0	294.1	712.1	12.6	11.3	297.5

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Union twp—Con.														
33	Primary metal industries -----	-	9	5	0.6	9.7	0.4	0.8	5.6	18.2	51.9	71.0	1.1	0.6	11.9
34	Fabricated metal products ---	-	25	13	2.0	26.1	1.3	2.6	14.8	52.4	58.4	108.4	1.6	2.4	44.7
345	Screw machine products, bolts, etc. -----	-	4	3	0.8	11.3	0.4	1.0	6.2	14.5	8.8	22.5	0.5	(NA)	(NA)
346	Metal forgings and stampings -----	-	5	4	0.5	4.1	0.4	0.6	3.1	10.3	6.9	17.4	0.2	(NA)	(NA)
3469	Metal stampings, n.e.c. --	-	5	4	0.5	4.1	0.4	0.6	3.1	10.3	6.9	17.4	0.2	(NA)	(NA)
35	Machinery, except electrical --	E1	43	18	1.1	18.0	0.8	1.6	12.0	26.3	26.3	53.2	1.6	1.2	17.2
354	Metalworking machinery ---	-	16	8	0.7	10.6	0.6	1.1	7.7	14.1	13.3	28.1	0.7	(NA)	(NA)
36	Electric and electronic equipment -----	-	13	12	1.4	14.6	0.9	1.7	7.6	35.7	24.9	60.1	(D)	1.3	25.2
364	Electric lighting and wiring equipment -----	-	5	5	0.9	10.3	0.5	1.0	4.8	26.3	19.0	44.7	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	19	6	0.5	6.6	0.4	0.8	4.5	11.5	16.1	27.0	0.2	0.5	6.9
-	Administrative and auxiliary --	-	14	10	1.6	24.3	-	-	-	-	-	-	-	(NA)	(NA)
	Union City -----	-	293	61	4.6	39.8	3.9	6.6	29.3	67.7	45.2	113.8	2.3	5.7	65.9
22	Textile mill products -----	E3	28	10	0.6	4.8	0.5	1.1	3.8	7.2	4.0	11.2	(D)	0.9	10.5
225	Knitting mills -----	E2	20	8	0.5	3.9	0.4	0.9	3.0	5.8	2.9	8.6	(D)	(NA)	(NA)
23	Apparel and other textile products -----	E4	181	28	2.0	14.8	1.8	3.0	12.1	23.6	13.7	37.4	(D)	2.6	24.7
233	Women's and misses' outerwear -----	E4	100	22	1.4	9.3	1.3	2.0	8.0	14.5	5.2	19.7	(D)	(NA)	(NA)
2337	Women's and misses' suits and coats -----	E1	17	11	0.5	4.0	0.5	0.8	3.5	6.5	2.0	8.5	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	E4	72	5	0.5	4.8	0.5	0.9	3.6	8.1	7.2	15.2	(D)	(NA)	(NA)
	Vineland -----	-	124	52	7.5	80.9	6.2	11.4	60.1	176.5	136.8	308.9	10.4	7.6	94.0
20	Food and kindred products --	-	22	8	1.2	12.6	1.0	1.8	10.0	41.5	52.2	92.9	1.0	1.5	18.2
23	Apparel and other textile products -----	-	14	9	1.7	12.2	1.6	2.7	10.7	20.1	9.2	28.8	(D)	1.9	12.7
32	Stone, clay, and glass products -----	-	26	17	2.9	37.3	2.3	4.5	28.1	71.9	35.2	105.0	(D)	2.8	40.9
	Wall twp -----	-	25	9	0.8	8.7	0.6	1.2	5.2	21.6	23.3	44.2	1.1	0.6	9.4
	Wallington -----	-	35	12	1.2	12.4	1.0	1.9	8.8	23.2	21.2	44.5	0.8	(D)	(D)
	Wanaque -----	-	19	6	0.6	6.7	0.4	0.9	4.3	19.9	22.3	41.2	(D)	1.2	20.9
	Washington -----	-	16	8	1.1	12.1	1.0	1.8	9.2	27.2	31.0	58.5	3.0	1.7	30.5
	Wayne twp -----	-	86	34	6.6	114.9	2.2	4.6	26.2	136.5	112.8	245.4	7.2	6.4	87.5
30	Rubber and miscellaneous plastics products -----	-	8	5	1.2	14.5	0.9	1.9	10.4	39.2	30.9	68.4	2.3	0.8	12.7
35	Machinery, except electrical --	-	13	4	0.8	10.9	0.4	0.9	5.0	35.5	26.5	59.4	0.6	0.7	17.5
-	Administrative and auxiliary --	-	11	8	3.4	72.5	-	-	-	-	-	-	-	(NA)	(NA)
	West Caldwell -----	-	31	18	2.3	30.6	1.6	3.3	18.0	54.9	53.6	108.4	2.6	1.8	35.5
	West Deptford twp -----	-	20	10	1.0	14.5	0.7	1.4	8.6	57.7	70.3	127.1	2.8	0.6	15.9
	West New York -----	-	294	56	4.8	40.4	4.3	8.0	30.4	67.9	87.7	152.2	(D)	5.4	60.6
22	Textile mill products -----	E5	29	14	1.0	9.0	0.9	1.8	7.1	15.1	15.4	30.0	(D)	0.9	11.9
225	Knitting mills -----	E5	14	8	0.6	4.6	0.5	1.0	3.9	7.1	2.9	9.9	(D)	(NA)	(NA)
2253	Knit outerwear mills -----	E5	8	8	0.5	4.1	0.5	0.9	3.5	6.1	2.2	8.2	(D)	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	West New York—Con.														
23	Apparel and other textile products -----	E4	226	36	2.4	19.2	2.1	3.9	15.4	31.9	24.5	56.3	(D)	3.0	30.6
233	Women's and misses' outerwear -----	E7	64	18	1.0	6.3	0.9	1.5	5.3	10.6	5.0	15.6	(D)	(NA)	(NA)
2335	Women's and misses' dresses -----	E8	45	9	0.5	3.5	0.5	0.9	2.8	6.2	4.0	10.1	(D)	(NA)	(NA)
2397	Schiffli machine embroideries -----	E2	97	5	0.6	7.4	0.6	1.2	5.9	13.0	9.6	22.6	0.3	(NA)	(NA)
	West Orange -----	-	54	14	1.3	16.2	0.8	1.5	7.4	37.3	23.8	61.4	2.0	2.4	22.3
	West Paterson -----	-	29	9	4.4	76.7	3.0	5.8	50.3	92.5	49.5	151.6	(D)	0.5	8.1
	Westwood -----	-	42	8	0.5	6.1	0.4	0.7	3.2	13.2	6.9	19.9	1.4	0.5	8.0
	Wharton -----	-	15	5	1.6	22.3	1.1	2.2	14.9	47.1	38.9	86.6	2.8	1.4	34.5
	Winslow twp -----	-	14	7	0.9	11.9	0.7	1.5	8.8	37.8	28.7	66.7	(D)	0.6	17.9
	Woodbridge twp -----	-	111	61	8.4	117.4	4.9	9.9	60.9	276.5	416.0	696.1	14.3	7.7	203.6
27	Printing and publishing -----	-	12	4	0.5	5.4	0.1	0.2	1.3	11.4	3.8	15.1	0.3	(NA)	(NA)
28	Chemicals and allied products -----	-	19	15	1.6	24.1	1.1	2.5	15.4	105.6	191.7	297.0	8.7	1.3	69.9
30	Rubber and miscellaneous plastics products -----	-	6	4	0.5	5.3	0.4	0.8	3.3	9.1	10.7	20.4	0.7	(NA)	(NA)
3079	Miscellaneous plastics products -----	-	6	4	0.5	5.3	0.4	0.8	3.3	9.1	10.7	20.4	0.7	(NA)	(NA)
32	Stone, clay, and glass products -----	-	7	5	0.6	9.2	0.5	0.9	6.6	21.7	16.3	38.2	0.8	0.6	11.8
34	Fabricated metal products ---	-	6	5	0.9	15.9	0.7	1.5	11.9	40.2	92.6	135.0	1.6	1.1	25.5
--	Administrative and auxiliary --	-	7	6	1.5	23.7	-	-	-	-	-	-	-	(NA)	(NA)
	Wood-Ridge -----	-	20	9	2.1	39.0	1.0	1.9	12.9	66.7	68.0	135.7	1.8	3.6	83.7
	Wyckoff twp -----	-	22	9	0.9	10.1	0.7	1.3	6.5	20.3	32.4	52.9	0.7	0.7	13.1

Note: "Place" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal products; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
NEW JERSEY	1596	753	3	527	1920	357	324	422	2066	986	87	751	107	571	314	1555	2173	919	225	431	754	511
1 TO 4 EMPLOYEES	5382	242	2	121	606	158	123	67	1057	251	16	169	27	169	71	475	930	273	103	127	301	74
5 TO 9 EMPLOYEES	2230	91	-	65	254	67	53	54	301	108	19	86	11	92	36	245	386	118	20	70	106	48
10 TO 19 EMPLOYEES	2309	91	-	92	269	60	44	45	254	137	16	116	11	81	48	303	351	138	25	55	107	61
20 TO 49 EMPLOYEES	2495	135	-	113	431	49	61	84	207	190	18	154	16	107	62	288	286	161	33	86	123	91
50 TO 99 EMPLOYEES	1449	183	-	73	233	15	28	72	95	122	7	117	14	41	35	119	114	84	16	41	68	72
100 TO 249 EMPLOYEES	1042	77	1	47	105	6	10	82	61	102	5	82	16	36	39	81	55	85	17	26	33	76
250 TO 499 EMPLOYEES	1370	23	-	15	19	1	2	11	22	42	2	24	5	14	17	33	32	34	5	13	10	46
500 TO 999 EMPLOYEES	139	7	-	1	3	1	3	0	7	18	2	3	2	6	5	8	12	12	3	8	6	29
1000 TO 2499 EMPLOYEES	63	4	-	-	-	-	-	-	1	12	2	-	-	-	-	2	7	10	1	5	-	13
2500 EMPLOYEES AND OVER	17	-	-	-	-	-	-	-	1	4	-	-	-	-	1	-	-	4	2	-	-	4
ATLANTIC COUNTY	211	31	-	3	34	16	10	1	29	5	-	10	-	19	1	8	14	5	6	5	12	2
1 TO 4 EMPLOYEES	145	20	-	2	17	14	7	1	26	2	-	5	-	11	-	6	10	3	4	4	11	2
5 TO 9 EMPLOYEES	145	6	-	-	12	2	3	-	2	1	-	3	-	6	1	2	4	1	1	1	-	-
10 TO 19 EMPLOYEES	14	1	-	1	3	-	-	-	1	1	-	1	-	1	-	-	-	-	-	-	-	-
20 TO 49 EMPLOYEES	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 TO 99 EMPLOYEES	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2579	103	-	97	283	54	46	75	430	179	7	99	15	61	34	244	357	154	32	80	116	113
250 TO 499 EMPLOYEES	1675	55	-	49	207	43	31	22	346	99	4	56	7	44	18	152	277	90	20	41	78	42
500 TO 99 EMPLOYEES	644	33	-	33	59	9	11	31	64	51	3	32	7	19	4	74	64	49	10	28	31	27
100 TO 249 EMPLOYEES	180	11	-	10	15	1	3	18	15	23	-	10	3	1	4	9	12	9	1	5	5	25
250 TO 499 EMPLOYEES	80	4	-	5	2	1	1	4	5	6	-	1	1	-	3	9	4	6	1	6	2	19
BURLINGTON COUNTY	486	22	-	18	32	14	13	11	61	25	3	8	2	32	15	55	89	37	12	12	13	12
1 TO 4 EMPLOYEES	317	11	-	10	15	5	3	9	49	17	3	6	1	23	7	32	66	23	8	8	9	8
5 TO 9 EMPLOYEES	119	3	-	10	13	5	3	9	12	4	-	2	1	7	4	17	15	10	2	2	3	2
10 TO 19 EMPLOYEES	30	5	-	2	1	-	1	1	-	2	-	-	-	1	1	4	5	3	2	1	1	1
20 TO 49 EMPLOYEES	20	-	-	2	1	-	-	-	-	-	-	-	-	-	-	2	3	1	1	1	-	-
50 TO 99 EMPLOYEES	806	51	-	9	36	20	17	28	143	43	8	23	5	35	17	109	136	44	11	24	26	21
100 TO 249 EMPLOYEES	553	26	-	6	22	15	10	16	113	22	8	14	4	18	9	82	111	24	6	15	20	12
250 TO 499 EMPLOYEES	183	17	-	2	13	5	5	4	23	16	-	6	1	9	6	21	21	13	3	7	3	6
500 TO 999 EMPLOYEES	50	6	-	1	1	-	2	1	6	3	-	3	-	4	1	3	1	4	2	2	2	1
1000 TO 2499 EMPLOYEES	20	2	-	1	-	-	-	-	1	3	-	-	-	4	1	3	1	1	-	-	2	2
CAPE MAY COUNTY	76	11	-	-	8	1	-	-	17	2	-	3	1	3	-	5	8	-	7	1	8	1
1 TO 4 EMPLOYEES	64	8	-	-	7	1	-	-	14	2	-	3	1	2	-	5	7	-	6	-	7	1
5 TO 9 EMPLOYEES	10	2	-	-	1	-	-	-	3	-	-	-	-	1	-	-	-	-	1	1	-	-
10 TO 19 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CUMBERLAND COUNTY	254	42	-	3	26	7	4	8	25	11	1	8	-	50	1	16	27	5	9	4	5	2
1 TO 4 EMPLOYEES	150	15	-	1	9	6	3	3	20	8	1	3	-	23	-	12	23	3	5	4	3	1
5 TO 9 EMPLOYEES	64	13	-	1	7	1	1	2	4	2	-	3	-	15	1	4	2	2	3	1	1	1
10 TO 19 EMPLOYEES	24	5	-	1	8	-	-	-	1	1	-	1	-	7	-	-	1	-	-	-	-	-
20 TO 49 EMPLOYEES	16	3	-	2	2	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-
50 TO 99 EMPLOYEES	2066	92	-	21	171	22	54	58	256	145	8	101	27	47	51	266	285	141	21	67	133	40
1 TO 4 EMPLOYEES	1296	54	-	15	80	19	35	27	214	81	6	56	19	30	23	193	214	84	11	39	80	16
5 TO 9 EMPLOYEES	546	24	-	6	75	3	17	23	31	47	2	38	5	17	21	58	63	31	8	19	42	16
10 TO 19 EMPLOYEES	105	8	-	13	3	1	6	8	11	11	-	6	2	5	5	10	2	18	1	3	9	2
20 TO 49 EMPLOYEES	59	6	-	-	-	-	1	2	3	6	-	1	1	-	2	5	6	8	1	6	2	6
50 TO 99 EMPLOYEES	264	21	-	3	26	16	8	3	31	16	4	13	1	16	6	31	31	13	7	3	12	3
100 TO 249 EMPLOYEES	168	15	-	10	14	7	1	26	3	6	2	9	1	14	3	19	22	4	6	2	6	1
250 TO 499 EMPLOYEES	70	3	-	1	14	2	1	2	2	5	-	3	-	2	1	11	8	6	1	1	6	1
500 TO 999 EMPLOYEES	18	3	-	2	2	-	-	-	-	2	2	-	-	-	-	-	1	-	-	-	-	-
1000 TO 2499 EMPLOYEES	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GLoucester County	1857	102	2	142	789	20	34	47	112	97	10	44	18	32	32	96	96	53	12	15	76	28
1 TO 4 EMPLOYEES	1202	66	2	88	543	17	25	16	86	44	3	18	6	22	18	65	74	28	5	8	53	15
5 TO 9 EMPLOYEES	513	20	-	45	225	3	6	20	21	37	6	19	5	5	10	27	17	16	3	4	16	8
10 TO 19 EMPLOYEES	100	11	-	8	16	-	2	11	3	12	1	6	5	3	2	2	2	3	3	2	4	2
20 TO 49 EMPLOYEES	42	5	-	1	5	-	1	-	2	4	-	1	2	2	2	2	3	4	1	1	3	3
50 TO 99 EMPLOYEES	148	12	-	2	5	5	1	5	19	9	-	6	2	8	5	13	25	12	3	4	6	6
100 TO 249 EMPLOYEES	90	7	-	-	1	4	1	-	17	6	-	3	1	3	2	3	19	8	2	3	5	1
250 TO 499 EMPLOYEES	40	1	-	-	-	-	-	-	3	3	-	-	-	-	-	4	5	4	1	1	-	-
1000 TO 2499 EMPLOYEES	14	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
2500 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--metroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
MERCER COUNTY	488	29	-	4	14	10	12	11	106	22	1	29	3	40	5	30	64	21	4	21	29
1 TO 19 EMPLOYEES	303	17	-	2	6	10	9	6	83	8	-	10	2	21	2	20	48	8	4	14	20
20 TO 99 EMPLOYEES	111	9	-	2	6	3	3	3	19	8	-	9	-	9	1	7	9	7	-	5	8
100 TO 249 EMPLOYEES	41	3	-	-	2	-	-	2	2	4	-	8	-	8	-	2	2	1	-	-	7
250 EMPLOYEES AND OVER	33	-	-	-	-	-	-	-	2	2	-	2	1	2	2	1	5	5	-	2	1
MIDDLESEX COUNTY	1147	46	1	18	89	27	23	41	124	108	14	83	8	46	36	103	152	52	14	30	54
1 TO 19 EMPLOYEES	607	21	-	15	34	23	15	10	97	36	6	30	2	26	15	49	113	32	11	14	34
20 TO 99 EMPLOYEES	355	14	-	2	44	4	8	15	21	47	3	41	4	14	9	36	27	14	-	11	14
100 TO 249 EMPLOYEES	119	8	1	-	8	-	-	-	12	15	3	10	2	4	9	15	5	4	2	3	13
250 EMPLOYEES AND OVER	166	3	-	1	3	-	-	4	4	10	2	2	-	2	3	3	7	2	1	2	3
MONMOUTH COUNTY	616	29	-	6	68	19	10	13	83	21	4	37	3	20	13	52	75	76	21	21	34
1 TO 19 EMPLOYEES	435	16	-	5	27	16	8	7	75	14	-	16	2	14	4	46	65	52	18	12	28
20 TO 99 EMPLOYEES	130	9	-	1	35	3	2	4	6	4	-	15	-	4	3	3	8	17	2	15	6
100 TO 249 EMPLOYEES	33	2	-	-	6	-	-	-	1	1	3	6	1	-	2	2	1	4	2	3	1
250 EMPLOYEES AND OVER	18	2	-	-	-	-	-	-	1	1	-	-	-	2	-	1	2	3	1	-	-
MORRIS COUNTY	774	13	-	10	13	21	9	21	110	39	2	52	4	32	8	92	148	70	11	41	27
1 TO 19 EMPLOYEES	515	8	-	4	10	16	8	10	92	19	1	27	2	26	4	64	121	43	7	20	24
20 TO 99 EMPLOYEES	153	1	-	4	2	4	1	5	14	10	1	15	1	5	1	20	19	10	3	15	20
100 TO 249 EMPLOYEES	62	4	-	1	1	1	-	1	2	3	-	8	-	-	2	4	4	11	1	4	1
250 EMPLOYEES AND OVER	44	-	-	1	-	-	-	-	1	2	7	-	2	1	1	4	4	6	-	2	12
OCEAN COUNTY	242	9	-	-	27	15	8	1	42	12	3	7	-	24	5	14	28	14	15	6	11
1 TO 19 EMPLOYEES	189	7	-	-	20	10	7	1	36	8	2	5	-	18	4	14	23	8	12	5	9
20 TO 99 EMPLOYEES	41	2	-	-	7	3	1	-	4	1	1	1	-	6	1	-	5	3	-	-	2
100 TO 249 EMPLOYEES	6	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	2	-	1	-
PASSAIC COUNTY	1558	55	-	152	173	35	39	46	164	109	5	85	9	38	23	148	236	89	11	31	72
1 TO 19 EMPLOYEES	922	28	-	85	67	29	27	24	123	62	4	40	5	27	10	92	177	50	9	20	49
20 TO 99 EMPLOYEES	500	22	-	65	91	6	11	15	34	34	1	31	2	10	9	45	49	26	2	9	23
100 TO 249 EMPLOYEES	91	2	-	19	13	2	-	-	7	8	-	7	1	1	3	8	8	5	-	1	-
250 EMPLOYEES AND OVER	45	3	-	3	2	-	1	-	2	5	-	7	1	-	1	3	2	8	-	1	6
SALEM COUNTY	59	11	-	-	8	4	1	-	6	9	1	2	-	5	-	4	3	-	2	1	2
1 TO 19 EMPLOYEES	32	7	-	-	6	3	1	-	5	1	1	1	-	3	-	4	3	-	2	1	1
20 TO 99 EMPLOYEES	18	3	-	-	-	1	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
SOMERSET COUNTY	360	9	-	3	13	13	3	8	39	29	6	32	1	26	11	30	67	24	3	18	13
1 TO 19 EMPLOYEES	220	5	-	3	5	8	3	1	31	7	4	16	1	17	7	23	49	12	3	10	10
20 TO 99 EMPLOYEES	93	4	-	-	7	5	-	5	5	12	-	12	-	4	3	6	13	6	-	5	3
100 TO 249 EMPLOYEES	22	-	-	-	1	-	-	-	2	5	1	3	-	2	1	1	2	1	-	1	-
250 EMPLOYEES AND OVER	25	-	-	-	-	-	-	-	1	1	1	1	-	3	-	-	3	5	-	2	3
SUSSEX COUNTY	113	-	-	3	13	5	2	2	16	7	1	9	-	8	2	5	22	6	-	5	7
1 TO 19 EMPLOYEES	86	-	-	2	9	4	1	1	13	6	1	6	-	7	1	4	18	5	-	4	4
20 TO 99 EMPLOYEES	21	-	-	1	3	1	1	1	2	1	-	2	-	-	1	1	3	1	-	1	2
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UNION COUNTY	1498	59	-	28	76	25	27	36	175	88	7	90	7	21	46	223	292	90	22	38	92
1 TO 19 EMPLOYEES	874	31	-	14	32	17	11	10	134	44	3	43	3	12	23	129	219	44	7	25	60
20 TO 99 EMPLOYEES	438	19	-	12	35	6	15	20	29	22	3	32	3	8	13	66	62	24	8	11	26
100 TO 249 EMPLOYEES	111	7	-	1	9	2	-	5	5	8	-	10	1	1	6	18	6	15	3	1	6
250 EMPLOYEES AND OVER	75	2	-	1	-	-	1	1	7	14	1	5	-	-	4	10	5	7	4	1	-
WARREN COUNTY	154	6	-	5	16	8	3	7	18	10	2	10	1	8	3	11	16	13	2	4	6
1 TO 19 EMPLOYEES	78	3	-	2	5	7	2	1	12	4	2	4	-	4	1	6	8	8	2	3	3
20 TO 99 EMPLOYEES	50	2	-	1	8	1	-	4	5	4	-	3	1	3	-	5	5	3	-	1	3
100 TO 249 EMPLOYEES	12	-	-	2	3	-	-	-	1	-	-	-	-	1	1	-	-	2	-	-	-
250 EMPLOYEES AND OVER	14	1	-	-	-	-	-	-	1	1	2	2	-	-	1	-	5	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).
 - Represents zero.
¹ Only those counties and size classes that include data for manufacturing establishments are shown.

New Mexico

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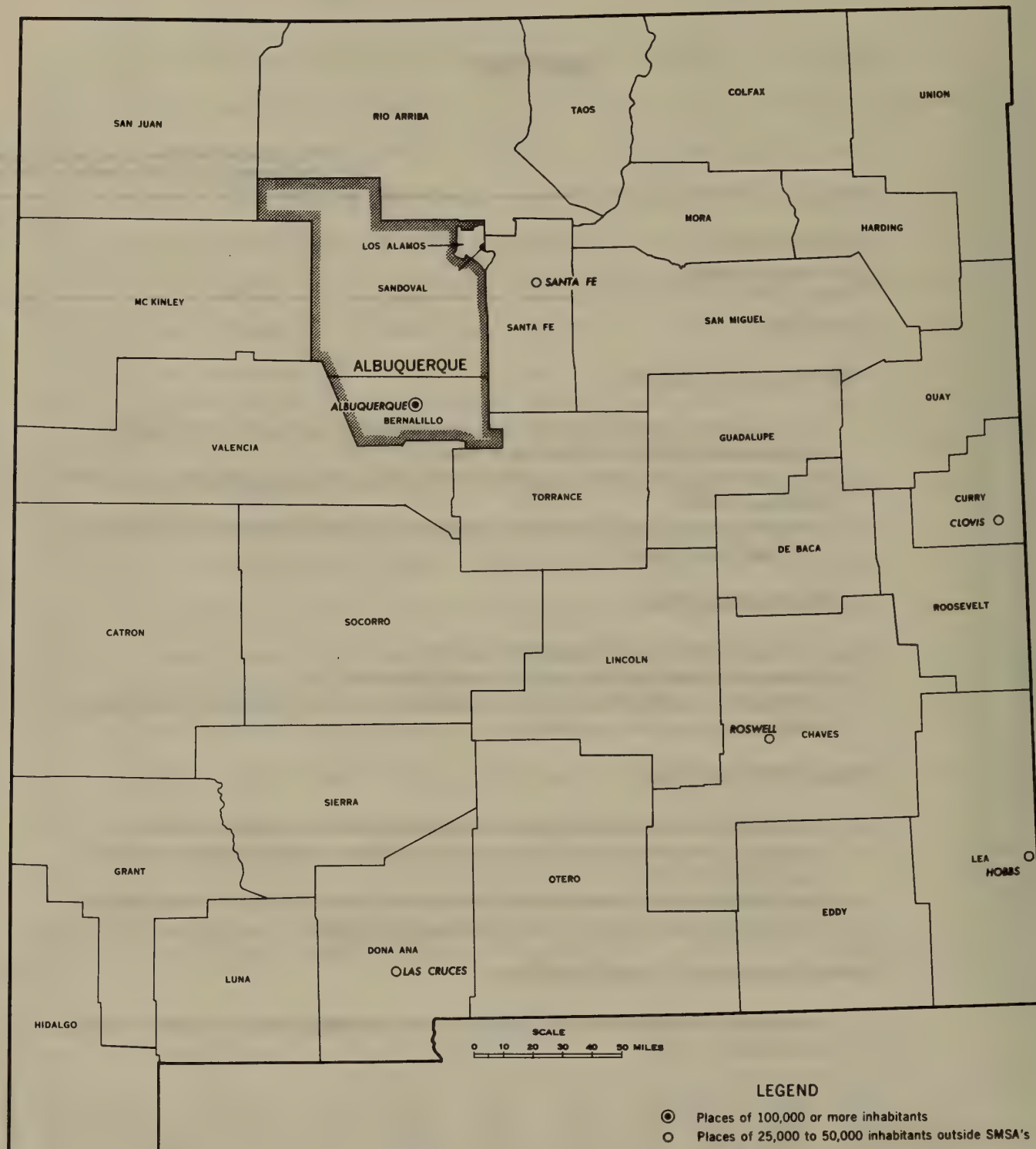
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NEW MEXICO



SUMMARY OF FINDINGS

In 1977, 29.0 thousand persons were employed in New Mexico's manufacturing establishments. This figure represented an increase of 23 percent from the 1972 figure of 23.6 thousand workers.

The total value added by manufacture for the State amounted to \$734 million in 1977, an increase of approximately 105 percent from the 1972 figure of \$358 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were food and kindred products, electric and electronic equipment, lumber and wood products, and apparel and other textile products. They accounted for approximately 47 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 48 percent of the State's employment.

The most important counties in the State ranked by employment were Bernalillo, Chaves, Dona Ana, and Santa Fe. They accounted for approximately 68 percent of the State's 1977 manufacturing employment. The order has shifted from 1972 when Bernalillo, Chaves, Dona Ana, and San Juan accounted for approximately 66 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 8 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
New Mexico:						
1977.....	29.0	296.9	28.7	292.0	.3	4.9
1972.....	23.6	157.2	23.2	152.5	.4	4.7
1967.....	16.9	98.6	16.6	95.2	.3	3.4
1963.....	15.3	82.1	15.2	79.7	.2	2.3
STANDARD METROPOLITAN STATISTICAL AREA						
Albuquerque:						
1977.....	14.9	152.0	14.9	151.5	(Z)	.5
1972.....	12.0	84.8	11.9	83.3	.1	1.5

(Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers							Comparative indexes and U.S. employment			
												United States			
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	Percent of U.S. manufacturing employment (per cent)	Index of State employment change (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
NEW MEXICO															
1977 CENSUS.....	1 323	258	29.0	296.9	20.9	39.5	183.8	733.5	1 289.4	2 009.2	75.0	.15	100	100	19 596.9
1976 ASM.....	(NA)	(NA)	30.2	273.0	23.1	42.1	175.3	635.2	902.8	1 534.0	119.5	.16	104	96	18 753.0
1975 ASM.....	(NA)	(NA)	27.1	237.1	20.0	37.7	146.8	511.2	818.4	1 303.1	177.9	.15	93	94	18 302.2
1974 ASM.....	(NA)	(NA)	28.0	220.2	20.0	37.5	136.4	491.9	807.1	1 272.9	144.2	.14	97	102	19 844.8
1973 ASM.....	(NA)	(NA)	25.6	182.5	18.6	35.1	110.6	416.1	659.2	1 060.5	59.0	.13	88	102	19 897.9
1972 CENSUS.....	926	277	23.6	157.2	17.2	32.9	96.0	358.0	567.2	910.4	30.8	.12	81	98	19 028.7
1971 ASM.....	(NA)	(NA)	22.7	141.7	17.0	32.8	88.8	272.9	496.6	765.5	43.9	.12	78	94	18 363.1
1970 ASM.....	(NA)	(NA)	21.6	124.7	15.9	30.3	78.6	227.3	488.0	712.8	12.2	.11	74	99	19 217.2
1969 ASM.....	(NA)	(NA)	18.4	110.0	13.4	27.2	69.7	207.2	462.2	666.9	19.2	.09	63	103	20 035.5
1968 ASM.....	(NA)	(NA)	16.4	100.1	11.7	24.1	60.7	194.3	386.3	579.1	12.0	.08	57	100	19 527.6
1967 CENSUS.....	749	169	16.9	98.6	11.3	22.3	55.6	204.5	284.3	486.3	10.6	.09	58	99	19 323.2
1966 ASM.....	(NA)	(NA)	15.8	89.3	10.6	21.1	50.5	148.1	354.0	499.1	11.5	.08	54	98	19 024.5
1965 ASM.....	(NA)	(NA)	16.1	87.6	10.6	21.1	48.8	134.5	318.1	463.5	12.7	.09	55	92	18 010.2
1964 ASM.....	(NA)	(NA)	15.9	83.5	10.3	20.9	47.5	150.2	284.6	406.7	10.0	.09	55	89	17 268.5
1963 CENSUS.....	742	169	15.3	82.1	10.2	20.7	47.2	149.6	(NA)	(NA)	10.4	.09	53	87	16 958.4

(NA) Not available.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	NEW MEXICO								
1977 CENSUS.....	10 232	72	1 887	4.65	64	79	25 282	40	18.58
1976 ASM.....	9 040	76	1 823	4.16	59	77	21 033	43	15.09
1975 ASM.....	8 749	74	1 885	3.89	63	81	18 863	46	13.56
1974 ASM.....	7 864	71	1 875	3.64	63	81	17 568	45	13.12
1973 ASM.....	7 129	73	1 887	3.15	62	79	16 254	44	11.85
1972 CENSUS.....	5 661	73	1 913	2.92	62	80	15 169	44	10.88
1971 ASM.....	6 242	75	1 929	2.71	65	83	12 022	52	8.32
1970 ASM.....	5 773	74	1 906	2.59	68	86	10 523	55	7.50
1969 ASM.....	5 978	73	2 030	2.56	69	86	11 261	53	7.62
1968 ASM.....	5 104	71	2 060	2.52	67	84	11 848	52	8.06
1967 CENSUS.....	5 834	67	1 973	2.49	58	79	12 101	48	9.17
1966 ASM.....	5 652	67	1 991	2.39	71	89	9 373	60	7.02
1965 ASM.....	5 441	66	1 991	2.31	69	88	8 354	65	6.37
1964 ASM.....	5 252	65	2 029	2.27	70	91	9 447	56	7.19
1963 CENSUS.....	5 366	67	2 029	2.28	(NA)	(NA)	9 778	55	7.23

Note: For qualifications to data, see footnotes on table 2a.

(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹	number	1 323	926
With 1 to 19 employees	do	1 065	699
With 20 to 99 employees	do	200	184
With 100 employees or more	do	58	43
All employees, average for year ¹	1,000	29.0	23.6
Payroll for year, all employees ¹	mil. dollars ..	296.9	157.2
Production workers:			
Average for year	1,000	20.9	17.2
March	do	20.4	16.3
May	do	20.9	16.9
August	do	21.2	17.7
November	do	21.0	18.0
Hours	millions	39.5	32.9
January to March	do	9.5	7.7
April to June	do	10.0	8.1
July to September	do	9.9	8.4
October to December	do	10.1	8.7
Wages	mil. dollars ..	183.8	96.0
Cost of materials, etc. ²	do	1 289.4	567.2
Materials, parts, containers, etc., consumed	do	1 145.7	520.7
Resales	do	63.0	27.0
Fuels consumed	do	37.4	6.1
Purchased electric energy	do	25.0	5.9
Contract work	do	18.2	7.5
Value of shipments, including resales ²	do	2 009.2	910.4
Value of resales	do	74.9	35.9
Value added by manufacture	do	733.5	358.0
Manufacturers' inventories:			
Beginning of year	do	192.9	82.6
Finished products	do	56.8	19.3
Work in process	do	63.3	36.8
Materials, supplies, fuel, etc.	do	72.8	26.5
End of year	do	214.8	90.3
Finished products	do	61.9	22.0
Work in process	do	72.0	37.7
Materials, supplies, fuel, etc.	do	80.9	30.6
Capital expenditures for plant and equipment	do	81.0	32.0
New capital expenditures	do	75.0	30.8
New buildings and other structures	do	21.6	9.7
New machinery and equipment	do	53.3	21.1
Used capital expenditures	do	6.0	1.2

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Including central administrative offices and auxiliaries (for definition, see appendix B).

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total	(15.1)	22
Beginning of year	765.5	2	Buildings and other structures	(7.4)	42
New capital expenditures	75.6	7	Machinery and equipment	(7.7)	19
Used capital expenditures	(6.8)	32			
Retirements	(17.3)	27	Depreciation charges during 1977:		
End of year	830.7	2	Total	59.2	4
Buildings and other structures:			Buildings and other structures	7.9	5
Beginning of year	158.5	4	Machinery and equipment	51.3	5
New capital expenditures	20.9	9			
Used capital expenditures	(1.7)	63	Supplemental labor costs:		
Retirements	(1.8)	32	Total	45.8	2
End of year	179.3	4	Legal costs	22.3	3
Machinery and equipment:			Voluntary costs	23.6	3
Beginning of year	607.0	3			
New capital expenditures	54.7	8	Purchased services:		
Automobiles, trucks, etc., for highway use...	(3.8)	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	(.6)	(NA)	Buildings and other structures	(1.4)	38
All other	(36.3)	(NA)	Response coverage ratio (percent)	50	(X)
New machinery and equipment, n.s.k.	14.0	(NA)	Machinery	(8.3)	32
Used capital expenditures	(5.2)	37	Response coverage ratio (percent)	66	(X)
Retirements	(15.6)	30	Cost of purchased communication services	(3.5)	31
End of year	651.2	2	Response coverage ratio (percent)	51	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972			
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)							
New Mexico -----	-	1 323	258	29.0	296.9	20.9	39.5	183.8	733.5	1 289.4	2 009.2	75.0	23.6	358.0	
STANDARD METROPOLITAN STATISTICAL AREAS															
Albuquerque -----	E1	621	120	14.9	152.0	10.8	20.6	94.4	363.1	341.9	695.1	27.0	12.0	179.3	
COUNTIES															
Bernalillo -----	E1	592	114	14.6	148.4	10.6	20.1	91.8	354.9	329.8	675.0	26.5	11.3	171.5	
Catron -----	-	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Chaves -----	-	56	18	2.2	19.3	1.6	3.0	11.5	48.4	152.9	201.2	1.3	1.6	21.7	
Colfax -----	E4	29	6	0.3	2.8	0.3	0.5	1.8	6.0	6.8	12.7	0.4	0.4	2.3	
Curry -----	-	33	8	0.8	8.3	0.6	1.1	6.0	23.3	111.3	134.1	0.7	0.7	17.0	
De Baca -----	-	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Dona Ana -----	-	59	17	1.6	14.4	1.1	2.1	8.3	56.9	34.0	89.1	3.4	1.4	19.6	
Eddy -----	-	43	11	1.0	14.3	0.7	1.4	8.1	42.0	156.4	198.4	(D)	0.4	4.8	
Grant -----	-	15	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Guadalupe -----	E0	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Harding -----	-	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Hidalgo -----	-	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Lea -----	E1	58	8	1.0	11.2	0.6	1.1	5.3	25.9	24.7	48.7	(D)	0.7	11.8	
Lincoln -----	E5	11	1	0.1	0.9	(Z)	0.1	0.3	1.6	1.2	2.8	0.1	0.1	1.5	
Los Alamos -----	E6	6	-	(Z)	0.4	(Z)	(Z)	0.2	0.8	0.6	1.3	0.1	0.1	0.3	
Luna -----	E1	11	2	0.4	2.6	0.3	0.6	1.7	4.0	11.0	14.6	0.3	0.4	3.9	
McKinley -----	-	32	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	17.1	
Mora -----	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Otero -----	-	34	6	1.0	7.9	0.8	1.2	6.1	13.8	20.7	34.9	1.1	(D)	(D)	
Quay -----	E1	10	2	0.1	1.0	0.1	0.2	0.6	2.6	7.1	9.6	(D)	0.3	3.6	
Rio Arriba -----	E1	24	4	0.3	3.0	0.3	0.5	2.2	5.7	7.8	13.3	(D)	0.4	4.6	
Roosevelt -----	-	19	5	0.3	3.0	0.2	0.4	1.5	8.7	29.8	38.1	2.2	0.2	2.8	
Sandoval -----	E3	29	6	0.4	3.6	0.3	0.6	2.5	8.2	12.2	20.1	0.5	0.6	7.8	
San Juan -----	-	55	13	0.9	10.0	0.5	0.9	5.4	25.8	56.9	80.7	11.9	1.2	17.6	
San Miguel -----	E6	11	2	0.1	1.1	0.1	0.2	0.7	2.4	2.4	4.8	(Z)	0.1	1.7	
Santa Fe -----	-	70	12	1.2	9.6	0.6	1.2	5.2	17.5	12.9	30.3	(D)	0.7	12.3	
Sierra -----	E0	4	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)	
Socorro -----	-	10	1	0.1	0.6	(Z)	0.1	0.3	1.2	1.5	2.6	0.1	0.1	1.0	
Taos -----	E7	39	1	0.2	1.6	0.2	0.3	1.1	3.9	3.6	7.4	0.5	0.2	2.1	
Torrance -----	E0	3	-	(Z)	(Z)	(Z)	(Z)	(Z)	0.1	0.1	0.2	(Z)	(D)	(D)	
Union -----	E1	5	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Valencia -----	E3	44	4	0.3	2.3	0.2	0.3	1.6	6.7	5.4	12.2	0.3	0.2	2.8	
CITIES															
Alamogordo -----	-	28	6	1.0	7.7	0.8	1.2	6.0	13.4	20.4	34.3	1.1	(D)	(D)	
Albuquerque -----	E1	483	93	12.4	122.3	9.1	17.0	76.8	288.7	271.4	554.2	17.1	9.6	139.2	
Carlsbad -----	-	25	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Clovis -----	-	31	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Farmington -----	-	44	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Hobbs -----	-	41	6	0.8	9.3	0.5	0.9	4.0	22.5	14.7	37.0	(D)	0.5	8.0	
Las Cruces -----	-	46	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	15.0	
Roswell -----	-	53	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Santa Fe -----	E2	63	10	0.8	6.7	0.5	0.9	3.8	13.8	10.5	24.1	(D)	0.7	11.8	

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	All industries -----	-	1 323	258	29.0	296.9	20.9	39.5	183.8	733.5	1 289.4	2 009.2	75.0	23.6	358.0
20	Food and kindred products -----	-	141	48	4.3	42.3	2.7	5.2	23.1	104.4	382.8	486.1	9.5	3.8	68.3
201	Meat products -----	-	20	9	1.3	14.3	1.1	2.2	10.2	27.3	231.3	258.3	1.4	1.1	18.6
2011	Meat packing plants -----	-	19	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
202	Dairy products -----	-	13	6	0.5	4.9	0.3	0.5	3.0	12.3	43.7	55.8	0.8	0.5	13.5
2026	Fluid milk -----	-	12	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
203	Preserved fruits and vegetables -----	-	5	2	0.2	1.1	0.1	0.2	0.6	2.1	2.3	4.4	(D)	(NA)	(NA)
204	Grain mill products -----	-	19	4	0.3	2.6	0.2	0.4	1.5	8.0	33.3	40.8	(D)	0.3	5.4
2048	Prepared feeds, n.e.c. -----	-	15	3	0.2	2.2	0.1	0.3	1.2	7.1	31.9	38.5	(D)	AA	(D)
205	Bakery products -----	E1	21	5	0.7	7.5	0.3	0.7	3.3	16.9	15.9	32.8	(D)	0.7	11.4
2051	Bread, cake, and related products -----	E1	21	5	0.7	7.5	0.3	0.7	3.3	16.9	15.9	32.8	(D)	0.7	11.4
208	Beverages -----	-	21	13	0.7	7.8	0.3	0.5	2.2	23.5	38.2	61.6	1.6	0.7	11.3
2086	Bottled and canned soft drinks -----	-	21	13	0.7	7.8	0.3	0.5	2.2	23.5	38.2	61.6	1.6	0.7	11.3
209	Miscellaneous foods and kindred products -----	E1	34	5	0.3	2.4	0.2	0.4	1.4	9.6	8.4	17.9	0.3	0.3	4.9
2099	Food preparations, n.e.c. -----	E1	23	5	0.3	2.0	0.2	0.3	1.1	8.4	8.0	16.4	0.2	0.3	3.9
22	Textile mill products --	-	7	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
225	Knitting mills -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2251	Women's hosiery, except socks -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
23	Apparel and other textile products -----	-	34	15	3.0	18.6	2.6	4.9	15.1	52.0	48.3	100.5	0.5	1.9	16.2
2311	Men's and boys' suits and coats -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
232	Men's and boys' furnishings -----	-	9	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2322	Men's and boys' underwear -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2328	Men's and boys' work clothing -----	-	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
233	Women's and misses' outerwear -----	E2	7	3	0.2	1.2	0.2	0.3	1.0	2.0	0.9	3.0	(D)	AA	(D)
24	Lumber and wood products -----	E2	131	37	3.0	27.5	2.6	5.2	22.1	56.0	73.2	126.7	6.8	2.8	31.6
2411	Logging camps and logging contractors -----	E8	34	4	0.3	2.5	0.2	0.4	2.2	6.3	8.1	14.1	(D)	0.3	3.6
242	Sawmills and planing mills -----	-	35	17	1.7	15.0	1.5	2.9	12.5	26.4	33.3	57.9	(D)	1.5	18.3
2421	Sawmills and planing mills, general -----	-	33	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
243	Millwork, plywood, and structural members -----	E1	45	12	0.6	6.1	0.5	1.1	4.6	14.8	23.4	38.0	0.5	0.6	6.6
2431	Millwork -----	E1	22	8	0.4	3.8	0.3	0.7	2.9	10.3	18.4	28.6	0.3	0.4	5.7
2434	Wood kitchen cabinets -----	E1	17	3	0.2	1.4	0.1	0.2	1.1	2.4	1.6	4.0	0.1	(NA)	(NA)
245	Wood buildings and mobile homes -----	E2	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2452	Prefabricated wood buildings -----	E2	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
249	Miscellaneous wood products -----	E9	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
25	Furniture and fixtures --	E4	34	3	0.2	1.6	0.2	0.3	1.1	3.1	2.8	5.9	(D)	BB	(D)
27	Printing and publishing -----	-	198	26	2.6	26.2	1.2	2.0	11.5	62.1	22.1	84.2	2.5	1.9	31.6
2711	Newspapers -----	-	56	17	1.8	17.6	0.6	1.2	6.5	45.0	12.5	57.6	1.2	1.3	23.2
275	Commercial printing -----	E1	99	8	0.6	5.8	0.4	0.7	3.7	11.6	7.6	19.1	(D)	0.4	6.1
2751	Commercial printing, letterpress -----	E3	61	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.9
2752	Commercial printing, lithographic -----	-	37	5	0.3	3.7	0.3	0.4	2.3	6.8	4.7	11.4	0.4	0.2	3.2
28	Chemicals and allied products -----	-	37	10	0.8	11.7	0.5	1.0	5.8	18.9	53.5	70.8	9.3	0.4	10.6
287	Agricultural chemicals -----	-	7	3	0.3	4.4	0.2	0.5	3.3	0.9	34.8	34.1	5.5	(NA)	(NA)
2873	Nitrogenous fertilizers -----	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
289	Miscellaneous chemical products -----	-	9	3	0.3	4.4	0.1	0.3	1.0	10.4	8.0	18.4	(D)	(NA)	(NA)
2899	Chemical preparations, n.e.c. -----	-	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
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[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
29	Petroleum and coal products -----	-	11	5	0.5	8.6	0.3	0.7	4.6	52.6	230.9	282.1	(D)	0.3	10.9
2911	Petroleum refining -----	-	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
30	Rubber and miscellaneous plastics products ----	E4	21	3	0.2	1.3	0.1	0.3	0.9	3.0	3.2	6.3	0.2	0.3	3.2
3079	Miscellaneous plastics products -----	E4	20	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
31	Leather and leather products -----	E1	9	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
317	Handbags and other personal leather goods -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3172	Personal leather goods -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	E1	118	32	1.9	23.0	1.4	2.9	15.4	56.6	55.2	111.9	7.5	1.4	31.7
327	Concrete, gypsum, and plaster products -----	-	80	27	1.5	18.2	1.1	2.3	12.1	37.6	42.5	80.1	(D)	1.1	21.6
3271	Concrete block and brick -----	E1	12	8	0.4	4.8	0.2	0.5	2.6	8.1	8.9	16.9	1.0	AA	(D)
3272	Concrete products, n.e.c. -----	E1	23	4	0.2	2.9	0.2	0.4	2.1	7.2	4.7	11.8	0.6	(NA)	(NA)
3273	Ready-mixed concrete -----	-	42	13	0.8	9.1	0.6	1.1	6.0	18.0	23.3	41.3	2.1	0.6	10.9
33	Primary metal industries -----	-	21	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
333	Primary nonferrous metals -----	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3331	Primary copper -----	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
336	Nonferrous foundries -----	E1	10	3	0.2	1.2	0.1	0.3	0.9	2.3	1.6	3.6	0.1	(NA)	(NA)
34	Fabricated metal products -----	E1	74	13	1.3	14.4	0.8	1.5	7.9	32.8	27.3	55.7	4.0	0.9	10.9
344	Fabricated structural metal products -----	E2	39	6	0.7	7.9	0.5	0.9	5.0	11.6	15.9	27.8	(D)	0.9	9.8
3441	Fabricated structural metal -----	-	6	4	0.4	5.0	0.3	0.5	3.0	6.9	9.6	16.8	0.7	0.4	4.9
349	Miscellaneous fabricated metal products -----	-	15	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3494	Valves and pipe fittings -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
35	Machinery, except electrical -----	E2	148	18	1.6	18.5	1.2	2.2	11.6	36.4	26.7	52.4	3.0	1.8	28.8
353	Construction and related machinery -----	E2	16	4	0.4	4.6	0.3	0.5	2.6	10.7	9.8	20.0	1.1	0.2	1.9
3532	Mining machinery -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3533	Oil field machinery -----	E2	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
358	General industrial machinery -----	E1	13	1	0.2	2.3	0.1	0.3	1.5	5.1	4.8	9.9	0.3	(NA)	(NA)
3569	General industrial machinery, n.e.c. -----	-	7	1	0.2	2.0	0.1	0.2	1.3	4.6	4.5	9.1	0.3	(NA)	(NA)
358	Miscellaneous machinery, except electrical -----	E2	101	8	0.7	8.2	0.6	1.0	5.8	14.0	8.3	22.2	1.3	0.4	6.2
3589	Machinery, except electrical, n.e.c. -----	E2	101	8	0.7	8.2	0.6	1.0	5.8	14.0	8.3	22.2	1.3	0.4	6.2
36	Electric and electronic equipment -----	-	43	12	3.4	30.9	2.7	4.7	21.0	78.9	50.3	127.6	(D)	2.8	42.0
363	Household appliances -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3634	Electric housewares and fans -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
366	Communication equipment -----	-	10	4	2.4	22.4	1.8	3.4	14.6	60.8	29.3	89.0	(D)	1.7	26.7
3661	Telephone and telegraph apparatus -----	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3662	Radio and TV communication equipment -----	-	9	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
367	Electronic components and accessories -----	E4	17	2	0.2	2.0	0.2	0.3	1.4	3.6	2.0	5.3	(D)	CC	(D)
3679	Electronic components, n.e.c. -----	E3	15	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
37	Transportation equipment -----	-	20	5	1.5	21.6	1.0	2.0	11.1	39.0	46.5	85.3	2.4	1.5	18.9
371	Motor vehicles and equipment -----	-	10	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3711	Motor vehicles and car bodies -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
372	Aircraft and parts -----	-	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3724	Aircraft engines and engine parts -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
376	Guided missiles, space vehicles, parts -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3761	Guided missiles and space vehicles -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
38	Instruments and related products -----	E3	20	4	0.5	5.1	0.2	0.4	2.4	9.4	5.4	14.7	0.6	0.6	7.0
382	Measuring and controlling devices -----	E3	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.1
3829	Measuring and controlling devices, n.e.c. -----	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
39	Miscellaneous manufacturing industries -----	E3	236	13	1.8	15.7	1.4	2.4	9.7	33.4	25.1	57.2	0.9	1.0	10.2
391	Jewelry, silverware, and plated ware -----	E2	135	9	1.3	10.9	1.0	1.7	6.7	23.7	18.3	40.9	(D)	0.6	6.4
3911	Jewelry, precious metal -----	E2	114	9	1.3	10.5	0.9	1.6	6.5	22.8	17.1	38.8	(D)	CC	(D)
399	Miscellaneous manufactures -----	E5	68	3	0.3	3.3	0.3	0.4	1.9	6.2	4.0	10.1	(D)	0.2	2.3
3999	Manufacturing industries, n.e.c. -----	E7	47	1	0.2	1.8	0.2	0.2	1.1	3.5	2.6	6.1	(D)	(NA)	(NA)
-	Administrative and auxiliary -----	-	14	3	0.3	4.9	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
² Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.
³ Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972		
			E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expen- ditures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
				Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Albuquerque SMSA -----	-	621	120	14.9	152.0	10.8	20.6	94.4	363.1	341.9	695.1	27.0	12.0	179.3	
20	Food and kindred products --	-	36	22	2.0	18.9	1.1	2.2	9.4	49.1	96.4	145.5	3.8	1.7	29.9	
205	Bakery products -----	-	8	3	0.5	5.0	0.2	0.4	2.1	11.2	11.6	22.8	(D)	0.5	7.7	
2051	Bread, cake, and related products -----	-	8	3	0.5	5.0	0.2	0.4	2.1	11.2	11.6	22.8	(D)	0.5	7.7	
208	Beverages -----	-	7	6	0.4	3.8	0.1	0.3	1.0	11.6	13.0	24.7	0.5	(NA)	(NA)	
2086	Bottled and canned soft drinks -----	-	7	6	0.4	3.8	0.1	0.3	1.0	11.6	13.0	24.7	0.5	(NA)	(NA)	
24	Lumber and wood products --	E2	50	22	1.4	14.3	1.2	2.6	11.3	30.1	44.4	72.1	4.6	1.0	12.3	
2431	Millwork -----	E2	13	7	0.3	3.1	0.3	0.6	2.4	7.0	16.0	22.8	0.2	(NA)	(NA)	
27	Printing and publishing -----	-	78	12	1.3	14.6	0.6	1.1	6.8	36.1	14.2	50.3	(D)	0.8	14.5	
275	Commercial printing -----	E1	45	8	0.4	4.2	0.3	0.5	2.6	8.4	5.3	13.8	(D)	(NA)	(NA)	
32	Stone, clay, and glass products -----	-	38	11	1.0	12.3	0.8	1.6	8.8	34.1	29.7	64.1	5.2	0.6	16.9	
327	Concrete, gypsum, and plaster products -----	-	20	8	0.7	8.8	0.6	1.2	6.3	19.2	19.3	38.5	(D)	0.4	8.0	
344	Fabricated structural metal products -----	E1	23	3	0.5	5.6	0.3	0.6	3.4	7.3	12.4	20.1	0.5	(NA)	(NA)	
35	Machinery, except electrical -	E4	72	6	0.7	8.3	0.5	1.0	5.2	14.2	8.7	22.9	(D)	1.5	24.5	
359	Miscellaneous machinery, except electrical -----	E2	53	3	0.4	5.0	0.3	0.6	3.4	8.4	4.1	12.5	(D)	0.3	3.7	
3599	Machinery, except electrical, n.e.c. -----	E2	53	3	0.4	5.0	0.3	0.6	3.4	8.4	4.1	12.5	(D)	0.3	3.7	
36	Electric and electronic equipment -----	-	30	9	2.8	26.0	2.2	4.0	17.2	71.8	34.3	104.2	(D)	1.7	31.0	
39	Miscellaneous manufacturing industries ---	E3	158	9	1.5	12.5	1.1	1.9	7.7	27.3	20.1	46.4	(D)	0.7	7.2	
391	Jewelry, silverware, and plated ware -----	E2	101	7	1.2	10.1	0.9	1.5	6.3	21.9	16.0	36.9	(D)	(NA)	(NA)	
3911	Jewelry, precious metal -	E2	85	7	1.2	9.7	0.8	1.5	6.1	21.1	15.0	35.1	(D)	(NA)	(NA)	

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
 (Z) Less than 50 thousand dollars or hours; under 50 employees.
 Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
 2Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
205 2051	Bernalillo County -----	-	592	114	14.6	148.4	10.6	20.1	91.8	354.9	329.8	675.0	26.5	11.3	171.5
	Bakery products -----	-	8	3	0.5	5.0	0.2	0.4	2.1	11.2	11.6	22.8	(D)	0.5	7.7
	Bread, cake, and related products -----	-	8	3	0.5	5.0	0.2	0.4	2.1	11.2	11.6	22.8	(D)	(NA)	(NA)
24	Lumber and wood products --	E2	41	19	1.3	12.4	1.1	2.3	9.8	25.3	36.5	59.7	4.2	0.8	8.6
34	Fabricated metal products ---	-	44	8	0.9	10.6	0.6	1.1	5.7	26.1	21.5	43.5	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	E2	153	9	1.4	12.3	1.1	1.9	7.6	26.8	19.9	45.7	0.6	0.7	7.2
20	Chaves County -----	-	56	18	2.2	19.3	1.6	3.0	11.5	48.4	152.9	201.2	1.3	1.6	21.7
	Food and kindred products --	-	13	7	1.0	9.8	0.7	1.4	5.5	17.9	111.5	129.4	(D)	0.7	10.6
	Curry County -----	-	33	8	0.8	8.3	0.6	1.1	6.0	23.3	111.3	134.1	0.7	0.7	17.0
	Dona Ana County -----	-	59	17	1.6	14.4	1.1	2.1	8.3	56.9	34.0	89.1	3.4	1.4	19.6
	Eddy County -----	-	43	11	1.0	14.3	0.7	1.4	8.1	42.0	156.4	198.4	(D)	0.4	4.8
	Lea County -----	-	58	8	1.0	11.2	0.6	1.1	5.3	25.9	24.7	48.7	(D)	0.7	11.8
	Otero County -----	-	34	6	1.0	7.9	0.8	1.2	6.1	13.8	20.7	34.9	1.1	(D)	(D)
	San Juan County -----	-	55	13	0.9	10.0	0.5	0.9	5.4	25.8	56.9	80.7	11.9	1.2	17.6
	Santa Fe County -----	-	70	12	1.2	9.6	0.6	1.2	5.2	17.5	12.9	30.3	(D)	0.7	12.3

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
 1Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
 2Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Alamogordo -----	-	28	6	1.0	7.7	0.8	1.2	6.0	13.4	20.4	34.3	1.1	(D)	(D)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
		E¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials² (million dollars)	Value of shipments² (million dollars)	New capital expenditures (million dollars)	All employ-ees (1,000)	Value added by manu-facture (million dollars)
			Total (no.)	With 20 employ-ees or more (no.)	Num-ber (1,000)	Payroll (million dollars)	Num-ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Albuquerque -----	-	483	93	12.4	122.3	9.1	17.0	76.8	288.7	271.4	554.2	17.1	9.6	139.2
20	Food and kindred products --	-	29	19	1.7	15.4	1.0	1.9	8.0	40.3	85.1	125.3	2.1	(NA)	(NA)
24	Lumber and wood products --	E3	32	14	1.0	10.2	0.9	2.0	8.2	21.0	27.7	46.6	4.0	0.6	6.1
27	Printing and publishing -----	-	73	12	1.3	14.6	0.6	1.1	6.8	36.0	14.1	50.1	1.3	(NA)	(NA)
32	Stone, clay, and glass products -----	-	24	8	0.6	7.4	0.5	1.0	5.2	16.4	14.9	31.3	1.5	(NA)	(NA)
327	Concrete, gypsum, and plaster products -----	-	12	6	0.5	6.7	0.4	0.9	4.7	14.2	13.3	27.5	1.4	(NA)	(NA)
35	Machinery, except electrical --	E4	52	3	0.5	5.4	0.3	0.6	3.3	10.1	6.6	16.7	0.7	1.3	22.7
36	Electric and electronic equipment -----	-	23	6	2.4	21.6	1.9	3.4	14.8	63.8	30.3	92.4	2.5	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	E2	133	8	1.4	11.7	1.0	1.8	7.3	25.6	18.5	43.0	0.6	(NA)	(NA)
391	Jewelry, silverware, and plated ware -----	E2	85	6	1.1	9.4	0.8	1.5	6.0	20.7	14.7	34.3	0.2	(NA)	(NA)
	Hobbs -----	-	41	6	0.8	9.3	0.5	0.9	4.0	22.5	14.7	37.0	(D)	0.5	8.0
	Santa Fe -----	-	63	10	0.8	6.7	0.5	0.9	3.8	13.8	10.5	24.1	(D)	0.7	11.8

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
NEW MEXICO	1323	141	-	7	34	131	34	4	198	37	11	21	9	118	21	74	148	43	20	20	238	14
1 TO 4 EMPLOYEES	750	59	-	5	16	68	23	2	123	18	5	11	5	52	9	41	78	20	10	13	169	3
5 TO 9 EMPLOYEES	178	12	-	-	13	27	7	1	29	7	1	1	-	22	3	5	23	7	2	2	33	4
10 TO 19 EMPLOYEES	157	22	-	1	12	13	1	1	20	2	1	2	-	12	2	15	29	4	3	2	23	4
20 TO 49 EMPLOYEES	139	26	-	4	21	3	-	-	15	4	3	3	-	21	3	17	11	5	1	2	10	2
50 TO 99 EMPLOYEES	61	10	-	-	3	10	-	-	6	4	3	-	-	8	2	3	6	1	1	1	1	1
100 TO 249 EMPLOYEES	36	11	-	-	2	5	-	-	-	2	1	-	-	3	-	3	1	2	1	1	-	-
250 TO 499 EMPLOYEES	14	1	-	1	1	-	-	-	1	-	-	-	1	-	-	-	-	3	1	1	-	-
500 TO 999 EMPLOYEES	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1000 TO 2499 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
BERNALILLO COUNTY	592	35	-	3	17	41	21	2	77	14	5	10	3	36	7	44	68	29	10	13	153	4
1 TO 4 EMPLOYEES	478	14	-	3	12	22	20	2	65	12	4	8	2	25	6	36	63	20	7	10	144	3
5 TO 9 EMPLOYEES	80	12	-	-	12	15	1	-	9	2	1	2	-	8	1	5	5	4	2	3	7	1
10 TO 19 EMPLOYEES	24	9	-	-	4	-	-	-	2	-	-	-	-	3	-	3	-	2	-	-	-	-
20 TO 249 EMPLOYEES	10	-	-	-	3	-	-	-	1	-	-	-	1	-	-	-	-	3	1	-	1	-
CATRON COUNTY	7	-	-	-	-	6	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 4 EMPLOYEES	5	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5 TO 9 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHAVES COUNTY	56	13	-	-	2	1	2	1	13	3	-	2	1	3	-	3	3	3	1	1	3	1
1 TO 4 EMPLOYEES	38	6	-	-	1	1	2	1	12	2	-	1	1	1	-	3	3	2	1	1	1	1
5 TO 9 EMPLOYEES	14	5	-	-	-	-	-	-	1	1	-	1	-	2	-	1	-	2	-	-	2	-
10 TO 19 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 249 EMPLOYEES	3	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
COLFAX COUNTY	29	6	-	-	-	7	2	-	5	-	-	-	-	1	-	3	1	1	-	-	-	-
1 TO 4 EMPLOYEES	23	6	-	-	-	5	1	-	5	-	-	-	-	-	-	2	1	1	-	-	3	-
5 TO 9 EMPLOYEES	6	-	-	-	-	2	1	-	-	-	-	-	-	1	-	1	-	-	-	-	3	-
CURRY COUNTY	33	11	-	-	1	2	-	-	4	-	-	-	1	4	-	2	5	-	1	-	1	1
1 TO 4 EMPLOYEES	25	8	-	-	-	-	-	-	3	-	-	-	1	3	-	1	1	-	1	-	1	1
5 TO 9 EMPLOYEES	6	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
10 TO 19 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DE BACA COUNTY	3	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 4 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
DONA ANA COUNTY	59	11	-	1	1	3	1	-	10	-	-	1	-	5	-	3	8	3	1	-	10	1
1 TO 4 EMPLOYEES	42	6	-	-	-	-	-	-	7	-	-	-	-	-	-	3	3	3	-	-	10	1
5 TO 9 EMPLOYEES	15	5	-	-	1	-	-	-	3	-	-	-	-	5	-	3	1	-	-	-	-	-
10 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
20 TO 249 EMPLOYEES	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EDDY COUNTY	43	7	-	-	-	2	1	-	6	5	1	1	-	7	-	3	8	-	-	-	1	1
1 TO 4 EMPLOYEES	32	6	-	-	-	2	1	-	5	2	-	1	-	5	-	2	6	-	-	-	1	1
5 TO 9 EMPLOYEES	9	1	-	-	-	-	-	-	1	1	-	-	-	2	-	1	2	-	-	-	-	-
10 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRANT COUNTY	15	3	-	-	-	-	-	-	4	1	-	-	-	3	2	-	1	-	-	-	-	-
1 TO 4 EMPLOYEES	9	3	-	-	-	-	-	-	3	-	-	-	-	2	-	-	1	-	-	-	-	-
5 TO 9 EMPLOYEES	4	-	-	-	-	-	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-
10 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GUADALUPE COUNTY	3	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 4 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HARDING COUNTY	3	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 4 EMPLOYEES	2	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HIDALGO COUNTY	3	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 4 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LEA COUNTY	58	5	-	-	1	1	-	-	9	5	-	1	-	7	-	3	20	2	-	-	3	1
1 TO 4 EMPLOYEES	50	5	-	-	1	1	-	-	8	3	-	1	-	6	-	2	18	2	-	-	3	1
5 TO 9 EMPLOYEES	6	-	-	-	-	-	-	-	1	1	-	-	-	1	-	-	2	-	-	-	-	-
10 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
LINCOLN COUNTY	11	1	-	-	-	1	-	-	4	-	-	-	-	1	1	1	-	1	-	-	1	-	1
1 TO 19 EMPLOYEES	10	1	-	-	-	1	-	-	4	-	-	-	-	1	1	1	-	1	-	-	1	-	1
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LOS ALAMOS COUNTY	6	-	-	-	-	-	-	-	1	-	-	1	-	2	-	-	-	-	-	2	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-	-
LUNA COUNTY	11	2	-	-	-	-	-	-	1	-	-	-	-	-	1	1	4	-	1	-	-	-	-
1 TO 19 EMPLOYEES	9	1	-	-	-	-	-	-	1	-	-	-	-	-	1	1	4	-	1	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MC KINLEY COUNTY	32	2	-	-	-	2	1	-	3	1	1	-	-	2	1	-	-	-	1	-	18	-	18
1 TO 19 EMPLOYEES	25	1	-	-	-	1	-	-	2	1	1	-	-	1	1	-	-	-	1	-	17	-	17
20 TO 99 EMPLOYEES	6	1	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	-	1
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MORA COUNTY	2	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
OTERO COUNTY	34	6	-	-	1	5	-	-	5	-	1	-	-	5	-	1	5	1	-	1	3	-	3
1 TO 19 EMPLOYEES	28	6	-	-	1	3	-	-	4	-	1	-	-	5	-	1	4	-	-	1	3	-	3
20 TO 99 EMPLOYEES	4	-	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QUAY COUNTY	10	4	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	3	-	3
1 TO 19 EMPLOYEES	8	3	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RIO ARriba COUNTY	24	2	-	1	-	13	-	-	2	-	-	-	-	3	-	1	1	-	-	-	1	-	1
1 TO 19 EMPLOYEES	20	2	-	1	-	10	-	-	2	-	-	-	-	3	-	1	1	-	-	-	1	-	1
20 TO 99 EMPLOYEES	4	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROOSEVELT COUNTY	19	11	-	-	-	-	-	-	5	-	-	-	-	-	-	-	1	-	-	-	1	1	1
1 TO 19 EMPLOYEES	14	7	-	-	-	-	-	-	4	-	-	-	-	-	-	-	1	-	-	-	1	1	1
20 TO 99 EMPLOYEES	5	4	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SANDOVAL COUNTY	29	1	-	-	-	9	1	-	1	-	-	1	-	2	1	2	4	1	1	-	5	-	5
1 TO 19 EMPLOYEES	23	1	-	-	-	6	1	-	1	-	-	1	-	2	1	2	3	1	1	-	5	-	5
20 TO 99 EMPLOYEES	6	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAN JUAN COUNTY	55	7	-	-	-	3	-	-	8	1	3	3	-	9	-	2	11	-	1	-	4	4	4
1 TO 19 EMPLOYEES	42	5	-	-	-	3	-	-	7	1	1	2	-	7	-	2	6	-	1	-	4	2	1
20 TO 99 EMPLOYEES	11	2	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAN MIGUEL COUNTY	11	2	-	-	2	3	-	-	2	-	-	-	-	1	-	1	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	9	2	-	-	1	2	-	-	2	-	-	-	-	1	-	1	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SANTA FE COUNTY	70	6	-	1	6	6	4	-	16	-	-	-	1	13	4	1	-	-	-	3	9	-	9
1 TO 19 EMPLOYEES	58	5	-	1	4	6	4	-	15	-	-	-	-	9	2	1	-	-	-	2	9	-	9
20 TO 99 EMPLOYEES	9	1	-	1	1	-	-	-	-	-	-	-	1	4	2	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SIERRA COUNTY	4	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	-	1
1 TO 19 EMPLOYEES	4	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	-	1
SOCORRO COUNTY	10	-	-	1	-	-	-	-	1	1	-	-	-	2	1	-	-	-	-	-	4	-	4
1 TO 19 EMPLOYEES	9	-	-	1	-	-	-	-	1	1	-	-	-	2	1	-	-	-	-	-	4	-	4
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TAOS COUNTY	39	2	-	-	-	15	1	-	5	2	-	1	3	1	-	-	1	2	1	-	5	-	5
1 TO 19 EMPLOYEES	38	2	-	-	-	15	1	-	5	2	-	1	3	1	-	-	1	2	1	-	5	-	5
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TORRANCE COUNTY	3	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

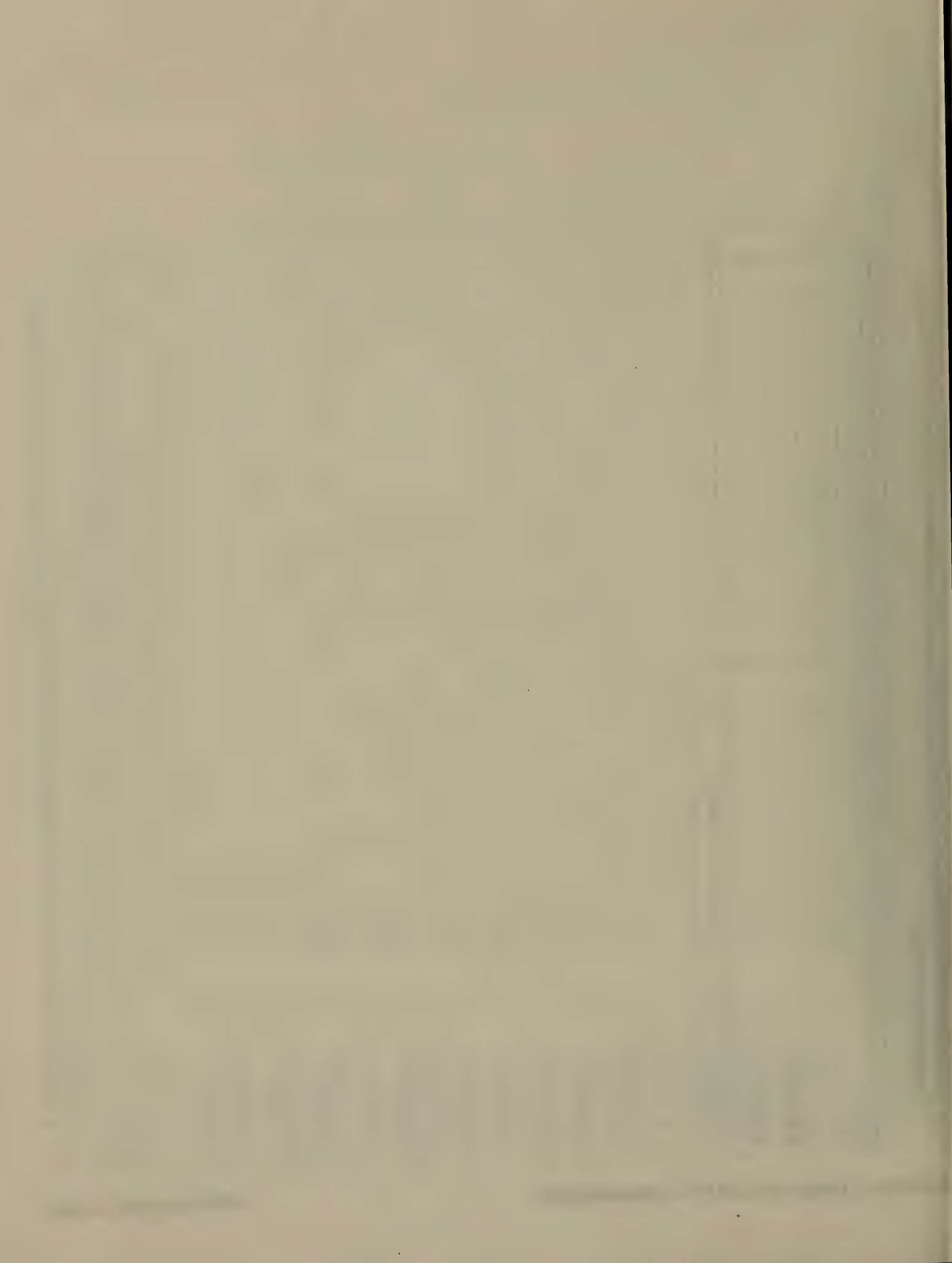
(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
UNION COUNTY	5	1	-	-	-	-	-	-	1	-	-	-	-	2	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	-	-	-	-	1	-	-	-	-	2	-	-	1	-	-	-	-	-
VALENCIA COUNTY	44	2	-	-	1	8	-	-	7	2	-	-	-	4	2	3	4	-	2	-	9	-
1 TO 19 EMPLOYEES	40	2	-	-	1	5	-	-	6	2	-	-	-	4	2	3	4	-	2	-	9	-
20 TO 99 EMPLOYEES	4	-	-	-	-	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

¹Only those counties and size classes that include data for manufacturing establishments are shown.



New York

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SUMMARY OF FINDINGS

In 1977, 1,509.9 thousand persons^a were employed in New York's manufacturing establishments. This figure represented a decrease of 10 percent from the 1972 figure of 1,679.3 thousand workers.

The total value added by manufacture for the State amounted to \$44,290 million in 1977, an increase of approximately 46 percent from the 1972 figure of \$30,404 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were apparel and other textile products; printing and publishing; electric and electronic equipment; and machinery, except electrical. They accounted for approximately 43 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 42 percent of the State's employment.

The most important counties in the State ranked by employment were New York, Monroe, Kings, and Erie. They accounted for approximately 47 percent of the State's 1977 manufacturing employment. The order has shifted from 1972 when New York, Kings, Monroe, and Erie accounted for approximately 50 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 1 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
New York:						
1977.....	1,509.9	20,876.1	1,383.8	18,088.8	126.1	2,787.3
1972.....	1,679.3	16,222.0	1,512.2	13,754.2	167.1	2,467.8
1967.....	1,929.2	13,851.5	1,771.2	12,055.6	158.0	1,795.9
1963.....	1,853.0	11,289.7	1,708.7	9,878.2	144.3	1,411.5
STANDARD CONSOLIDATED STATISTICAL AREA						
New York-Newark-Jersey City, N.Y.-N.J.-Conn.:						
1977.....	1,502.0	20,379.2	1,317.1	16,309.1	184.9	4,070.1
1972.....	1,694.5	13,654.6	1,487.6	10,602.3	206.5	3,052.3
1967.....	1,818.5	12,968.2	1,643.5	10,998.6	175.0	1,969.6
1963.....	1,779.0	10,767.1	1,625.5	9,279.1	153.5	1,488.0
STANDARD METROPOLITAN STATISTICAL AREAS						
Albany-Schenectady-Troy:						
1977.....	61.3	909.2	53.8	769.5	7.5	139.7
1972.....	66.9	676.1	60.0	577.2	6.9	98.9
Binghamton, N.Y.-Pa.:						
1977.....	39.6	578.1	38.9	569.2	.7	8.9
1972.....	36.4	377.4	35.6	371.0	.8	6.4
1967.....	46.1	347.5	45.1	340.8	1.0	6.7
1963.....	41.6	259.0	(D)	(D)	(D)	(D)
Buffalo:						
1977.....	140.3	2,296.1	136.9	2,222.7	3.4	73.4
1972.....	151.7	1,617.9	143.1	1,505.2	8.6	112.7
1967.....	176.2	1,354.8	173.1	1,326.1	3.1	28.7
1963.....	162.9	1,104.3	158.6	1,071.0	4.3	33.3
Elmira:						
1977.....	12.8	166.3	12.0	154.8	.8	11.5
1972.....	13.9	128.0	13.2	121.7	.7	6.3
Nassau-Suffolk:						
1977.....	155.9	2,099.0	151.7	2,013.0	4.2	86.0
1972.....	150.2	1,474.3	145.3	1,422.3	4.9	52.0
New York, N.Y.-N.J.:						
1977.....	796.6	10,313.0	692.9	7,981.5	103.7	2,331.5
1972.....	949.2	8,862.5	810.7	6,774.2	138.5	2,088.3
1967.....	1,147.4	8,112.7	1,023.5	6,654.7	123.9	1,458.0
1963.....	1,147.1	6,849.4	1,034.0	5,713.4	113.2	1,136.1
Poughkeepsie:						
1977.....	27.4	498.9	26.5	479.0	.9	19.9
1972.....	22.2	257.5	20.9	239.1	1.3	18.4
Rochester:						
1977.....	144.4	2,390.1	134.2	2,166.8	10.2	223.3
1972.....	142.2	1,625.8	130.3	1,447.4	11.9	178.4
Syracuse:						
1977.....	57.8	893.1	54.7	835.5	3.1	57.6
1972.....	60.5	592.5	57.7	557.3	2.8	35.2
1967.....	68.2	506.2	65.5	479.5	2.7	26.7
1963.....	67.1	423.5	63.7	396.0	3.4	27.5
Utica-Rome:						
1977.....	29.2	385.2	29.0	382.0	.2	3.2
1972.....	35.4	308.0	35.2	306.0	.2	2.0
1967.....	42.9	282.5	42.2	275.3	.7	7.2
1963.....	38.5	218.7	38.2	216.0	.3	2.7

(D) Withheld to avoid disclosing operations of individual companies.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers									Comparative indexes and U.S. employment				
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	Index of State em- plov- ment change (1977= 100)	United States				
														Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)			
NEW YORK																		
1977 CENSUS.	36 578	11 425	1 509.9	20 876.1	958.1	1 827.5	10 418.8	44 289.8	42 441.9	86 216.4	2 530.2	7.70	100	100	19 596.9			
1976 ASM....	(NA)	(NA)	1 455.3	18 786.8	906.9	1 740.5	9 243.1	38 849.3	37 694.7	76 087.1	2 303.7	7.76	96	96	18 753.0			
1975 ASM....	(NA)	(NA)	1 481.0	17 939.9	902.7	1 723.3	8 550.3	34 796.1	34 637.5	69 551.3	2 172.1	8.09	98	94	18 302.2			
1974 ASM....	(NA)	(NA)	1 621.3	18 143.4	1 022.9	1 970.8	8 863.2	35 271.4	35 020.4	69 271.2	2 198.2	8.17	107	102	19 844.8			
1973 ASM....	(NA)	(NA)	1 711.5	17 387.2	1 105.2	2 125.8	8 829.0	33 610.1	31 524.9	64 648.9	1 643.7	8.60	113	102	19 897.9			
1972 CENSUS.	41 684	14 353	1 679.3	16 222.0	1 076.2	2 068.2	8 174.3	30 403.5	28 341.1	58 558.6	1 506.0	8.83	111	98	19 028.7			
1971 ASM....	(NA)	(NA)	1 701.9	15 263.4	1 076.1	2 066.3	7 648.0	28 862.2	25 961.4	54 936.6	1 431.7	9.27	113	94	18 363.1			
1970 ASM....	(NA)	(NA)	1 828.2	15 262.5	1 173.6	2 266.3	7 751.8	28 463.2	25 333.8	53 526.6	1 519.0	9.51	121	99	19 217.2			
1969 ASM....	(NA)	(NA)	1 939.7	15 321.0	1 270.0	2 476.3	8 017.8	28 384.0	26 637.0	54 891.0	1 594.0	9.68	128	103	20 035.5			
1968 ASM....	(NA)	(NA)	1 910.8	14 423.8	1 263.5	2 473.6	7 663.4	26 931.4	25 177.2	51 960.4	1 342.6	9.79	127	100	19 527.6			
1967 CENSUS.	42 911	14 730	1 929.3	13 851.5	1 284.5	2 509.8	7 334.7	25 246.7	24 458.6	49 418.7	1 310.3	9.98	128	99	19 323.2			
1966 ASM....	(NA)	(NA)	1 933.5	13 097.9	1 291.6	2 549.9	6 979.8	24 588.3	24 246.0	48 231.5	1 186.2	10.16	128	95	19 024.5			
1965 ASM....	(NA)	(NA)	1 885.9	12 288.2	1 265.3	2 497.4	6 632.0	22 694.2	22 478.8	44 848.1	1 098.4	10.47	125	92	18 010.2			
1964 ASM....	(NA)	(NA)	1 860.6	11 861.1	1 238.1	2 453.5	6 381.1	20 839.7	21 055.1	41 809.9	939.8	10.77	123	89	17 268.5			
1963 CENSUS.	47 041	15 022	1 853.0	11 289.7	1 247.8	2 431.4	6 163.5	19 539.5	(NA)	(NA)	783.4	10.93	123	87	16 958.4			
NEW YORK-NEWARK-JERSEY CITY, N.Y.-N.J.-CONN.; SCSA																		
1977 CENSUS.	41 325	13 366	1 502.0	20 379.2	919.2	1 747.6	9 319.5	40 638.1	44 236.4	84 486.0	1 949.6	7.66	100	100	19 596.9			
1972 CENSUS.	36 320	12 614	1 694.5	16 210.9	1 063.6	2 031.1	7 759.4	29 668.0	29 037.2	58 236.3	1 292.4	8.90	113	98	19 028.7			
ALBANY-SCHENECTADY-TROY SMSA																		
1977 CENSUS.	766	274	61.3	909.2	37.0	74.0	454.3	1 859.7	1 806.0	3 612.7	151.2	.31	100	100	19 596.9			
1976 ASM....	(NA)	(NA)	57.1	816.9	33.2	69.0	404.8	1 633.2	1 576.5	3 156.5	88.9	.30	93	96	18 753.0			
1975 ASM....	(NA)	(NA)	58.6	728.4	33.8	67.9	365.2	1 359.8	1 419.8	2 772.7	94.1	.32	96	94	18 302.2			
1974 ASM....	(NA)	(NA)	67.0	764.1	40.6	81.3	395.1	1 655.8	1 408.6	2 985.1	130.0	.34	109	102	19 844.8			
1973 ASM....	(NA)	(NA)	68.0	713.6	42.1	85.1	368.1	1 459.0	1 233.0	2 690.7	73.7	.34	111	102	19 897.9			
1972 CENSUS.	732	306	66.9	676.1	41.9	84.7	354.5	1 322.0	1 127.4	2 439.1	78.0	.35	109	98	19 028.7			
BUFFALO SMSA																		
1977 CENSUS.	1 711	628	140.3	2 296.1	102.1	203.4	1 555.5	4 735.5	5 629.7	10 345.8	451.7	.72	100	100	19 596.9			
1976 ASM....	(NA)	(NA)	139.4	2 007.4	103.1	202.2	1 392.6	4 375.5	5 349.6	9 624.9	325.2	.74	99	96	18 753.0			
1975 ASM....	(NA)	(NA)	135.3	1 776.2	97.9	186.7	1 175.3	3 607.6	4 725.1	8 334.0	348.0	.74	96	94	18 302.2			
1974 ASM....	(NA)	(NA)	151.9	1 854.6	112.9	218.9	1 276.8	3 861.4	5 024.6	8 779.7	348.7	.77	108	102	19 844.8			
1973 ASM....	(NA)	(NA)	160.3	1 838.6	117.0	233.2	1 238.4	3 720.4	4 024.6	7 681.4	242.9	.81	114	102	19 897.9			
1972 CENSUS.	1 362	655	151.7	1 617.9	108.7	216.3	1 063.0	3 146.3	3 272.8	6 392.5	248.1	.80	108	98	19 028.7			
1971 ASM....	(NA)	(NA)	155.7	1 510.2	113.2	225.2	1 016.7	3 065.9	3 127.8	6 204.2	192.8	.85	111	94	18 363.1			
1970 ASM....	(NA)	(NA)	165.9	1 477.7	119.2	236.9	975.4	2 801.7	2 908.7	5 697.5	274.5	.86	118	99	19 217.2			
1969 ASM....	(NA)	(NA)	177.3	1 504.2	129.7	258.9	1 013.5	2 983.5	3 093.7	6 041.3	261.6	.88	126	103	20 035.5			
1968 ASM....	(NA)	(NA)	174.0	1 421.2	127.0	258.6	963.3	2 839.7	2 895.6	5 729.6	193.0	.89	124	100	19 527.6			
1967 CENSUS.	171	717	176.2	1 354.8	129.0	260.4	904.7	2 653.5	2 795.1	5 409.3	223.6	.91	126	99	19 323.2			
1966 ASM....	(NA)	(NA)	180.4	1 342.8	133.2	273.7	922.0	2 593.4	2 920.7	5 471.9	197.5	.95	129	98	19 024.5			
1965 ASM....	(NA)	(NA)	175.1	1 269.2	127.1	266.5	867.2	2 432.5	2 793.7	5 210.9	209.1	.97	125	92	18 010.2			
1964 ASM....	(NA)	(NA)	167.1	1 190.6	122.1	252.7	794.4	2 243.9	2 543.5	4 754.5	211.8	.97	119	89	17 268.5			
1963 CENSUS.	1 808	679	162.9	1 104.3	117.9	239.5	731.8	2 068.8	(NA)	(NA)	116.3	.96	116	87	16 958.4			
NASSAU-SUFFOLK SMSA																		
1977 CENSUS.	4 827	1 268	155.9	2 099.0	101.6	196.8	1 099.6	4 370.3	3 380.6	7 729.7	196.7	.80	100	100	19 596.9			
1976 ASM....	(NA)	(NA)	144.2	1 876.0	90.0	177.9	958.3	3 598.3	3 039.3	6 574.0	161.8	.77	92	96	18 753.0			
1975 ASM....	(NA)	(NA)	142.8	1 731.8	88.1	175.0	889.5	3 246.8	2 813.2	5 924.8	133.7	.78	92	94	18 302.2			
1974 ASM....	(NA)	(NA)	151.0	1 666.2	96.1	190.9	861.0	3 107.5	2 621.4	5 566.9	126.4	.76	97	102	19 844.8			
1973 ASM....	(NA)	(NA)	157.0	1 590.9	102.2	200.6	840.2	2 936.2	2 409.8	5 308.3	102.7	.79	101	102	19 897.9			
1972 CENSUS.	4 193	1 219	150.2	1 474.3	97.6	185.9	763.0	2 523.2	2 063.1	4 423.0	111.1	.79	96	98	19 028.7			
NEW YORK, N.Y.-N.J.; SMSA																		
1977 CENSUS.	25 831	8 040	796.6	10 313.0	489.0	909.7	4 519.2	19 878.3	21 494.9	41 187.9	862.5	4.07	100	100	19 596.9			
1976 ASM....	(NA)	(NA)	763.4	9 298.5	455.9	856.9	3 946.1	16 818.9	19 005.3	35 831.8	813.0	4.07	96	96	18 753.0			
1975 ASM....	(NA)	(NA)	787.4	9 240.4	464.0	873.3	3 840.6	15 927.9	17 992.6	34 092.5	645.8	4.30	99	94	18 302.2			
1974 ASM....	(NA)	(NA)	854.5	9 277.1	517.1	977.7	3 911.7	15 953.4	17 404.6	33 078.3	616.0	4.31	107	102	19 844.8			
1973 ASM....	(NA)	(NA)	938.7	9 146.0	589.8	1 095.3	4 142.8	15 666.2	16 659.9	32 256.2	524.5	4.72	118	102	19 897.9			
1972 CENSUS.	41 689	14 353	949.2	8 862.5	589.5	1 106.9	4 000.4	15 120.8	15 634.1	30 604.4	585.1	4.99	119	98	19 028.7			
1971 ASM....	(NA)	(NA)	992.9	8 653.2	614.2	1 161.8	3 994.8	15 245.3	14 361.4	29 525.8	573.4	5.41	125	94	18 363.1			
1970 ASM....	(NA)	(NA)	1 074.8	8 766.2	680.6	1 296.2	4 141.9	15 193.5	14 102.0	29 185.2	547.2	5.59	135	99	19 217.2			
1969 ASM....	(NA)	(NA)	1 158.7	8 934.2	747.5	1 433.3	4 357.0	15 429.1	15 103.0	30 537.4	537.1	5.78	145	103	20 035.5			
1968 ASM....	(NA)	(NA)	1 140.0	8 452.3	743.3	1 358.1	4 187.9	14 854.1	14 468.3	29 194.3	487.6	5.84	143	100	19 527.6			
1967 CENSUS.	45 894	15 915	1 147.4	8 112.7	749.6	1 435.6	3 968.1	13 803.5	13 808.6	27 486.1	439.4	5.94	144	99	19 323.2			
1966 ASM....	(NA)	(NA)	1 149.1	7 551.8	749.0	1 435.6	3 662.3	12 981.9	13 801.2	26 521.2	379.5	6.04	144	98	19 024.5			
1965 ASM....	(NA)	(NA)	1 138.2	7 174.4	748.3	1 438.9	3 564.6	12 308.6	13 155.5	25 311.0	336.5	6.32	143	92	18 010.2			
1964 ASM....	(NA)	(NA)	1 146.3	7 134.0	745.1	1 445.5	3 563.2	11 577.6	12 564.3	24 114.3	296.9	6.64	144	89	17 268.5			
1963 CENSUS.	49 904	16 085	1 147.1	6 849.4	760.7	1 455.2	3 515.6	11 417.0	(NA)	(NA)	345.8	6.76	144	87	16 958.4			
ROCHESTER SMSA																		
1977 CENSUS.	1 316	467	144.4	2 390.1	81.7	158.3	1 129.49.											

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years—Con.

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers								Comparative indexes and U.S. employment				
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)
								Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)								
	SYRACUSE SMSA																
1977 CENSUS.	767	281	57.8	893.1	37.3	74.5	513.1	2 017.7	2 312.6	4 300.1	152.2	.30	100	100	19 596.9		
1976 ASM....	(NA)	(NA)	54.6	772.6	35.9	70.4	428.9	1 685.2	2 018.6	3 675.8	248.6	.29	94	96	18 753.0		
1975 ASM....	(NA)	(NA)	53.6	697.3	34.7	66.6	374.6	1 391.0	1 554.4	2 993.4	207.3	.29	93	94	18 302.2		
1974 ASM....	(NA)	(NA)	60.0	724.1	41.1	81.3	414.2	1 512.4	1 691.4	3 140.7	147.4	.30	104	102	19 844.8		
1973 ASM....	(NA)	(NA)	63.3	666.2	41.5	84.3	392.5	1 361.3	1 416.7	2 741.6	98.7	.32	109	102	19 897.9		
1972 CENSUS.	732	298	60.5	592.5	39.2	78.3	337.5	1 205.3	1 203.3	2 380.3	84.3	.32	105	98	19 028.7		
1971 ASM....	(NA)	(NA)	58.8	546.6	37.3	74.0	291.4	1 024.8	970.5	2 029.9	68.1	.32	102	94	18 763.1		
1970 ASM....	(NA)	(NA)	63.4	551.4	39.7	79.2	292.1	1 031.1	919.2	1 945.4	86.8	.33	110	99	19 217.2		
1969 ASM....	(NA)	(NA)	65.0	541.0	41.3	82.8	294.0	1 058.1	979.0	2 014.5	114.4	.32	112	103	20 035.5		
1968 ASM....	(NA)	(NA)	65.7	516.2	42.7	85.2	281.2	984.1	934.9	1 922.8	90.8	.34	114	100	19 527.6		
1967 CENSUS.	755	291	68.2	506.2	44.7	89.8	280.9	941.1	885.6	1 830.6	70.7	.35	118	99	19 323.2		
1966 ASM....	(NA)	(NA)	74.4	534.6	49.2	103.9	297.2	1 010.3	906.5	1 896.3	78.6	.39	129	95	19 024.5		
1965 ASM....	(NA)	(NA)	68.2	470.6	44.5	92.1	261.6	925.4	828.0	1 750.1	64.1	.38	118	92	18 010.2		
1964 ASM....	(NA)	(NA)	63.2	429.9	40.7	84.2	237.2	837.0	738.9	1 567.0	36.0	.37	109	87	17 268.5		
1964 ASM....	773	280	67.1	423.5	41.0	81.6	225.1	779.7	(NA)	(NA)	42.8	.39	116	89	17 268.5		

(NA) Not available.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
NEW YORK									
1977 CENSUS.....	13 826	63	1 908	5.70	49	73	29 334	47	24.24
1976 ASM.....	12 909	62	1 919	5.31	50	74	26 695	48	22.32
1975 ASM.....	12 113	61	1 909	4.96	50	76	23 495	52	20.19
1974 ASM.....	11 191	63	1 927	4.50	51	77	21 755	51	17.90
1973 ASM.....	10 159	65	1 923	4.15	49	76	19 638	52	15.81
1972 CENSUS.....	9 660	64	1 922	3.95	48	75	18 105	53	14.70
1971 ASM.....	8 968	63	1 920	3.70	47	75	16 959	53	13.97
1970 ASM.....	8 348	64	1 931	3.42	47	76	15 569	54	12.56
1969 ASM.....	7 899	65	1 950	3.24	49	76	14 633	54	11.46
1968 ASM.....	7 549	66	1 958	3.10	48	76	14 094	54	10.89
1967 CENSUS.....	7 180	67	1 954	2.92	49	78	13 086	55	10.06
1966 ASM.....	6 774	67	1 974	2.74	50	77	12 717	53	9.64
1965 ASM.....	6 516	67	1 974	2.66	50	78	12 034	54	9.09
1964 ASM.....	6 375	67	1 982	2.60	50	79	11 201	57	8.49
1963 CENSUS.....	6 093	67	1 949	2.53	(NA)	(NA)	10 545	58	8.04
NEW YORK-NEWARK-JERSEY CITY, N.Y.-N.J.-CONN., SCSA									
1977 CENSUS.....	13 568	61	1 901	5.33	52	76	27 056	50	23.25
1972 CENSUS.....	9 567	63	1 910	3.82	50	78	17 508	55	14.61
ALBANY-SCHENECTADY-TROY SMSA									
1977 CENSUS.....	14 833	60	2 002	6.14	50	75	30 338	49	25.12
1976 ASM.....	14 306	58	2 078	5.87	50	76	28 602	50	23.67
1975 ASM.....	12 430	58	2 009	5.38	51	77	23 205	54	20.03
1974 ASM.....	11 404	61	2 002	4.86	47	73	24 713	46	20.37
1973 ASM.....	10 494	62	2 021	4.33	46	72	21 456	49	17.14
1972 CENSUS.....	10 106	63	2 021	4.19	46	74	19 761	51	15.61

See footnotes at end of table.

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years—Con.

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
BUFFALO SMSA									
1977 CENSUS.....	16 369	73	1 993	7.65	54	77	33 760	48	23.28
1976 ASM.....	14 400	74	1 961	6.89	56	76	31 388	46	21.64
1975 ASM.....	13 128	72	1 907	6.30	57	78	26 664	49	19.32
1974 ASM.....	12 209	74	1 939	5.83	57	78	25 421	48	17.64
1973 ASM.....	11 470	73	1 993	5.31	52	76	23 209	49	15.95
1972 CENSUS.....	10 665	72	1 990	4.91	51	77	20 740	51	14.55
1971 ASM.....	9 699	73	1 989	4.51	50	75	19 691	49	13.61
1970 ASM.....	8 907	72	1 987	4.12	51	77	16 888	53	11.83
1969 ASM.....	8 484	73	1 996	3.91	51	76	16 827	51	11.52
1968 ASM.....	8 168	73	2 036	3.73	51	75	16 320	50	10.98
1967 CENSUS.....	7 689	73	2 019	3.47	52	77	15 060	51	10.19
1966 ASM.....	7 443	74	2 055	3.37	53	78	14 376	52	9.48
1965 ASM.....	7 248	73	2 097	3.25	54	78	13 892	52	9.13
1964 ASM.....	7 125	73	2 070	3.14	53	79	13 428	53	8.88
1963 CENSUS.....	6 779	72	2 031	3.06	(NA)	(NA)	12 700	53	8.64
NASSAU-SUFFOLK SMSA									
1977 CENSUS.....	13 462	65	1 937	5.59	44	71	28 029	48	22.21
1976 ASM.....	13 010	62	1 977	5.39	46	75	24 954	52	20.23
1975 ASM.....	12 127	62	1 986	5.08	47	77	22 737	53	18.55
1974 ASM.....	11 034	64	1 986	4.51	47	77	20 579	54	16.28
1973 ASM.....	10 133	65	1 963	4.19	45	75	18 702	54	14.64
1972 CENSUS.....	9 816	65	1 905	4.10	47	80	16 799	58	13.57
NEW YORK, N.Y.—N.J., SMSA									
1977 CENSUS.....	12 946	61	1 860	4.97	52	77	24 954	52	21.85
1976 ASM.....	12 180	60	1 880	4.61	53	79	22 032	55	19.63
1975 ASM.....	11 735	59	1 882	4.40	53	80	20 228	58	18.24
1974 ASM.....	10 857	61	1 891	4.00	53	81	18 670	58	16.32
1973 ASM.....	9 743	63	1 857	3.78	52	80	16 689	58	14.30
1972 CENSUS.....	9 337	62	1 878	3.61	51	80	15 930	59	13.66
1971 ASM.....	8 715	62	1 892	3.44	49	78	15 354	57	13.12
1970 ASM.....	8 156	63	1 904	3.20	48	78	14 136	58	11.72
1969 ASM.....	7 711	65	1 917	3.04	49	79	13 316	58	10.76
1968 ASM.....	7 414	65	1 827	3.08	50	79	13 030	57	10.94
1967 CENSUS.....	7 071	65	1 915	2.76	50	80	12 030	59	9.62
1966 ASM.....	6 572	65	1 917	2.55	52	81	11 297	58	9.04
1965 ASM.....	6 303	66	1 923	2.48	52	80	10 814	58	8.55
1964 ASM.....	6 224	65	1 940	2.47	52	82	10 100	62	8.01
1963 CENSUS.....	5 971	66	1 913	2.42	(NA)	(NA)	9 953	60	7.85
ROCHESTER SMSA									
1977 CENSUS.....	16 554	57	1 938	7.14	32	56	46 630	36	42.54
1976 ASM.....	15 602	57	1 936	6.75	32	56	45 476	34	41.09
1975 ASM.....	14 587	54	1 923	6.33	32	56	40 735	36	39.54
1974 ASM.....	13 123	57	1 938	5.58	34	59	35 817	37	32.60
1973 ASM.....	12 137	58	2 008	4.96	29	55	34 348	35	29.34
1972 CENSUS.....	11 433	59	1 991	4.82	29	55	30 876	37	26.13
SYRACUSE SMSA									
1977 CENSUS.....	15 439	65	1 997	6.88	54	75	34 882	44	27.07
1976 ASM.....	14 150	66	1 961	6.09	55	76	30 864	46	23.94
1975 ASM.....	13 009	65	1 919	5.62	52	75	25 951	50	20.89
1974 ASM.....	12 068	68	1 978	5.09	54	77	25 207	48	18.60
1973 ASM.....	10 524	66	2 031	4.66	52	76	21 506	49	16.15
1972 CENSUS.....	9 793	65	1 997	4.31	51	75	19 922	49	15.39
1971 ASM.....	9 296	63	1 984	3.94	48	75	17 429	53	13.85
1970 ASM.....	8 697	63	1 995	3.69	47	76	16 263	53	13.01
1969 ASM.....	8 323	64	2 005	3.55	49	75	16 278	51	12.78
1968 ASM.....	7 857	65	1 995	3.30	49	75	14 979	52	11.55
1967 CENSUS.....	7 422	66	2 009	3.13	48	76	13 799	54	10.48
1966 ASM.....	7 185	66	2 112	2.86	48	76	13 579	53	9.72
1965 ASM.....	6 900	65	2 070	2.84	47	74	13 569	51	10.05
1964 ASM.....	6 802	64	2 069	2.82	47	75	13 244	51	9.94
1963 ASM.....	6 311	61	1 990	2.76	(NA)	(NA)	11 620	54	9.56

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹ -----	number -----	36 578	38 342
With 1 to 19 employees -----	do -----	25 153	25 346
With 20 to 99 employees -----	do -----	8 864	10 135
With 100 employees or more -----	do -----	2 561	2 861
All employees, average for year ¹ -----	1,000 -----	1 509.9	1 679.3
Payroll for year, all employees ¹ -----	mil. dollars --	20 876.1	16 222.0
Production workers:			
Average for year -----	1,000 -----	958.1	1 076.2
March -----	do -----	938.9	1 059.0
May -----	do -----	956.0	1 063.4
August -----	do -----	962.9	1 081.0
November -----	do -----	970.5	1 101.3
Hours -----	millions -----	1 827.5	2 068.2
January to March -----	do -----	444.4	507.8
April to June -----	do -----	465.1	520.7
July to September -----	do -----	451.4	505.1
October to December -----	do -----	466.6	534.6
Wages -----	mil. dollars --	10 418.8	8 174.3
Cost of materials, etc. ² -----	do -----	42 441.9	28 341.1
Materials, parts, containers, etc., consumed -----	do -----	35 326.9	23 151.2
Resales -----	do -----	2 000.0	1 592.4
Fuels consumed -----	do -----	746.5	310.5
Purchased electric energy -----	do -----	732.8	353.7
Contract work -----	do -----	3 635.9	2 933.3
Value of shipments, including resales ² -----	do -----	86 216.4	58 558.6
Value of resales -----	do -----	2 738.3	2 045.8
Value added by manufacture -----	do -----	44 289.8	30 403.5
Manufacturers' inventories:			
Beginning of year -----	do -----	12 365.5	8 392.1
Finished products -----	do -----	3 759.4	2 937.7
Work in process -----	do -----	4 537.4	2 923.6
Materials, supplies, fuel, etc. -----	do -----	4 068.8	2 530.9
End of year -----	do -----	13 113.4	8 682.5
Finished products -----	do -----	3 977.6	2 925.3
Work in process -----	do -----	4 822.4	3 096.7
Materials, supplies, fuel, etc. -----	do -----	4 313.4	2 660.6
Capital expenditures for plant and equipment -----	do -----	2 694.4	1 567.2
New capital expenditures -----	do -----	2 530.2	1 506.0
New buildings and other structures -----	do -----	451.9	320.2
New machinery and equipment -----	do -----	2 078.3	1 185.8
Used capital expenditures -----	do -----	164.2	61.2

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Including central administrative offices and auxiliaries (for definition, see appendix B).

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	681.8	2
Beginning of year.....	22,526.4	1	Buildings and other structures.....	413.2	2
New capital expenditures.....	2,640.9	1	Machinery and equipment.....	268.1	3
Used capital expenditures.....	179.1	6			
Retirements.....	1,189.2	2	Depreciation charges during 1977:		
End of year.....	24,157.2	1	Total.....	1,490.0	1
Buildings and other structures:			Buildings and other structures.....	277.8	2
Beginning of year.....	6,351.1	1	Machinery and equipment.....	1,212.2	1
New capital expenditures.....	473.3	3			
Used capital expenditures.....	41.3	7	Supplemental labor costs:		
Retirements.....	215.2	3	Total.....	3,458.0	1
End of year.....	6,650.4	1	Legal costs.....	1,384.1	1
Machinery and equipment:			Voluntary costs.....	2,074.0	1
Beginning of year.....	16,175.2	1			
New capital expenditures.....	2,167.6	1	Purchased services:		
Automobiles, trucks, etc., for highway use...	48.8	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	82.5	(NA)	Buildings and other structures.....	115.0	7
All other.....	1,608.2	(NA)	Response coverage ratio (percent).....	64	(X)
New machinery and equipment, n.s.k.....	428.0	(NA)	Machinery.....	(335.6)	77
Used capital expenditures.....	137.8	7	Response coverage ratio (percent).....	64	(X)
Retirements.....	974.3	2	Cost of purchased communication services.....	(310.7)	67
End of year.....	17,506.3	1	Response coverage ratio (percent).....	65	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind.

(X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972			
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)							
New York -----	-	36 578	11 425	1 509.9	20 876.1	958.1	1 827.5	10 418.8	44 289.8	42 441.9	86 216.4	2 530.2	1 679.3	30 403.5	
STANDARD CONSOLIDATED STATISTICAL AREAS															
New York-Newark-Jersey City, N.Y.-N.J.-Conn. -----	-	41 325	13 366	1 502.0	20 379.2	919.2	1 747.6	9 319.5	40 638.1	44 236.4	84 486.0	1 949.6	1 694.5	29 668.0	
Portion in New York -----	-	28 079	8 404	843.4	10 892.4	526.8	980.4	4 906.3	21 404.8	21 192.0	42 411.4	856.6	991.4	15 715.6	
Portion in New Jersey -----	-	12 395	4 649	609.2	8 626.2	372.8	729.4	4 206.0	18 046.3	22 244.9	40 093.0	1 036.2	658.0	13 133.8	
STANDARD METROPOLITAN STATISTICAL AREAS															
Albany-Schenectady-Troy -----	-	766	274	61.3	909.2	37.0	74.0	454.3	1 859.7	1 806.0	3 612.7	151.2	66.9	1 322.0	
Binghamton, N.Y.-Pa. -----	-	389	146	39.6	578.1	22.3	42.9	236.3	1 081.2	1 244.8	2 273.4	(D)	36.4	673.5	
Portion in New York -----	-	326	125	37.3	558.7	20.4	39.3	221.8	1 046.7	1 216.5	2 211.3	71.9	34.3	651.9	
Portion in Pennsylvania -----	E1	63	21	2.2	19.3	1.9	3.6	14.4	34.6	28.2	62.1	(D)	2.1	21.6	
Buffalo -----	-	1 711	628	140.3	2 296.1	102.1	203.4	1 555.5	4 735.5	5 629.7	10 345.8	451.7	151.7	3 146.3	
Elmira -----	-	119	55	12.8	166.3	9.0	17.8	105.9	331.5	313.3	636.1	(D)	13.9	216.7	
Nassau-Suffolk -----	E1	4 827	1 268	155.9	2 099.0	101.6	196.8	1 099.6	4 370.3	3 380.6	7 729.7	196.7	150.2	2 523.2	
New York, N.Y.-N.J. -----	E1	25 831	8 040	796.6	10 313.0	489.0	909.7	4 519.2	19 878.3	21 494.9	41 187.9	862.5	949.2	15 120.8	
Portion in New York -----	E1	23 252	7 136	687.5	8 793.4	425.2	783.6	3 806.7	17 034.5	17 811.4	34 681.7	660.0	839.0	13 162.4	
Portion in New Jersey -----	-	2 579	904	109.1	1 519.7	63.8	126.1	712.5	2 843.8	3 683.6	6 506.1	202.6	110.2	1 958.4	
Poughkeepsie -----	-	229	85	27.4	498.9	10.9	21.3	124.8	896.0	1 149.2	1 970.3	(D)	22.2	448.5	
Rochester -----	-	1 316	467	144.4	2 390.1	81.7	158.3	1 129.4	6 732.4	3 083.9	9 735.1	335.0	142.2	4 390.6	
Syracuse -----	-	767	281	57.8	893.1	37.3	74.5	513.1	2 017.7	2 312.6	4 300.1	152.2	60.5	1 205.3	
Utica-Rome -----	-	411	141	29.2	385.2	20.5	39.3	223.9	791.7	827.2	1 607.4	41.5	35.4	631.0	
COUNTIES															
Albany -----	-	286	101	16.8	246.9	11.1	22.3	148.0	543.7	606.8	1 153.2	74.6	20.7	377.6	
Allegany -----	-	47	12	3.4	46.2	2.2	4.5	27.9	109.4	114.7	230.5	4.2	3.7	63.4	
Bronx -----	E1	1 136	395	33.1	352.3	25.6	47.6	222.4	712.7	639.2	1 351.1	33.8	41.2	573.0	
Broome -----	-	276	108	30.7	433.7	18.0	34.8	194.9	811.1	1 117.9	1 880.3	(D)	29.6	570.7	
Cattaraugus -----	-	132	55	9.1	108.8	6.5	12.5	70.9	280.0	236.9	514.7	10.2	8.6	137.8	
Cayuga -----	-	104	33	5.8	68.3	3.8	7.1	36.5	126.1	157.4	287.2	9.0	6.4	119.3	
Chautauqua -----	-	299	106	16.6	215.6	12.0	24.0	145.8	493.8	471.3	960.7	51.8	17.4	267.9	
Chemung -----	-	119	55	12.8	166.3	9.0	17.8	105.9	331.5	313.3	636.1	(D)	(D)	(D)	
Chenango -----	-	84	27	5.6	66.0	3.9	7.2	37.4	117.2	114.2	231.8	13.6	5.5	115.5	
Clinton -----	-	79	25	3.7	45.4	2.7	5.3	29.5	239.0	160.9	390.7	9.4	3.0	136.8	
Columbia -----	E1	86	31	2.7	27.6	2.1	4.0	17.6	67.1	64.3	130.0	3.5	2.9	50.2	
Cortland -----	-	64	24	5.5	58.7	4.0	7.5	37.4	117.7	126.6	251.0	7.3	6.2	89.9	
Delaware -----	-	74	22	5.8	64.4	4.0	7.9	39.8	140.5	144.6	280.1	6.5	5.6	85.4	
Dutchess -----	-	229	85	27.4	498.9	10.9	21.3	124.8	896.0	1 149.2	1 970.3	(D)	22.2	448.5	
Erie -----	-	1 405	500	108.8	1 775.3	79.4	157.6	1 212.1	3 209.1	4 425.3	7 644.2	326.1	119.9	2 251.0	
Essex -----	-	61	9	1.6	23.2	1.3	2.5	17.3	63.6	62.7	124.0	5.7	1.6	31.3	
Franklin -----	-	58	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	13.2	
Fulton -----	-	164	68	7.1	64.5	5.8	11.5	44.8	148.4	176.1	317.3	(D)	6.7	89.5	
Genesee -----	-	87	39	5.3	67.5	3.8	7.5	40.9	122.0	185.3	308.3	10.6	6.8	90.6	
Greene -----	E1	46	19	2.0	21.0	1.6	3.2	14.6	42.9	45.6	86.9	1.8	1.6	28.1	
Hamilton -----	E5	14	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	0.6	
Herkimer -----	-	97	33	7.4	99.0	5.6	11.1	57.5	229.2	127.2	361.1	11.7	12.0	189.2	
Jefferson -----	-	87	32	5.6	69.7	4.5	8.8	51.6	154.5	274.6	432.5	7.6	6.3	100.4	
Kings -----	E1	4 201	1 466	118.4	1 192.0	96.3	176.7	825.0	2 621.3	2 793.9	5 358.7	116.7	165.6	2 536.3	
Lewis -----	-	34	12	1.7	20.7	1.3	2.7	14.8	51.8	104.8	156.8	4.7	2.0	30.7	
Livingston -----	-	56	25	3.9	46.1	3.1	6.0	32.1	158.3	106.2	227.0	4.9	4.3	107.0	
Madison -----	E1	64	20	1.7	20.1	1.1	2.1	10.4	34.0	88.3	121.5	3.2	2.0	28.4	
Monroe -----	-	968	342	126.2	2 182.5	68.1	131.6	994.0	6 171.1	2 555.8	8 689.8	309.2	124.5	4 016.1	
Montgomery -----	E1	89	47	7.7	74.7	5.5	10.3	45.0	144.4	189.1	331.5	16.8	7.8	115.2	
Nassau -----	-	2 448	636	92.1	1 338.9	56.3	111.6	661.4	2 702.6	2 084.1	4 773.4	117.0	93.4	1 618.5	
New York -----	E1	13 289	3 800	359.4	4 970.4	191.3	344.8	1 637.0	8 834.8	9 034.3	17 775.6	303.7	431.2	6 393.3	
Niagara -----	-	306	128	31.5	520.7	22.7	45.8	343.4	1 526.4	1 204.4	2 701.6	125.5	31.8	895.3	
Oneida -----	-	314	108	21.8	286.2	14.9	28.3	166.4	562.5	700.0	1 246.3	29.8	23.4	441.8	
Onondaga -----	-	594	221	47.8	744.0	29.9	59.6	410.5	1 534.9	1 364.3	2 870.8	100.5	51.6	1 040.5	
Ontario -----	-	125	43	4.6	53.9	3.4	6.6	34.6	139.3	146.5	281.9	8.3	4.4	76.4	
Orange -----	-	358	146	15.2	156.2	11.6	22.1	104.0	406.3	401.6	797.6	21.7	16.5	237.2	
Orleans -----	-	48	16	2.8	29.6	2.3	4.5	23.0	105.7	86.2	190.6	2.7	2.6	76.8	
Oswego -----	-	109	40	8.4	128.9	6.4	12.9	92.2	448.8	860.0	1 307.7	48.4	6.9	136.3	
Otsego -----	E1	60	18	1.6	15.3	1.2	2.3	9.4	32.9	42.6	74.9	1.8	1.3	18.5	
Putnam -----	E2	64	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	12.4	
Queens -----	E1	2 710	907	94.1	1 060.1	70.1	134.1	656.0	2 256.4	2 208.7	4 461.7	92.6	113.6	1 908.2	
Rensselaer -----	-	127	39	7.1	87.9	4.4	8.5	47.1	210.4	139.2	350.4	8.7	8.9	171.1	
Richmond -----	-	125	40	4.7	66.2	3.6	7.0	46.7	183.1	441.7	616.4	13.6	6.0	166.4	
Rockland -----	-	278	87	14.8	202.4	9.0	17.3	105.3	809.9	433.2	1 240.1	31.9	14.0	516.5	
St. Lawrence -----	-	87	34	7.2	120.1	5.5	11.2	88.7	396.5	785.1	1 210.4	43.8	7.7	131.9	
Saratoga -----	-	120	35	5.3	77.9	3.6	7.7	46.1	210.3	228.1	433.2	31.6	(D)	(D)	
Schenectady -----	-	144	52	24.4	421.8	12.4	25.2	168.1	750.8	642.7	1 344.5	19.6	(D)	(D)	
Schoharie -----	-	38	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	9.6	
Schuyler -----	E3	19	6	1.2	14.9	0.9	1.7	9.5	30.9	22.1	52.7	2.6	1.2	21.9	
Seneca -----	-	35	12	3.3	43.5	2.1	4.3	25.4	102.2	92.6	198.3	8.1	3.5	76.2	
Steuben -----	-	91	41	14.2	211.1	7.2	14.6	83.2	393.9	271.7	664.4	19.5	11.4	200.2	
Suffolk -----	E2	2 379	632	63.8	760.1	45.3	85.2	438.2	1 667.7	1 296.5	2 956.3	79.7	56.8		

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972		
	E ¹	All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital ex- pend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
CITIES														
Akron -----	-	10	7	0.9	12.7	0.6	1.2	7.4	29.4	17.7	46.6	1.1	1.3	21.3
Albany -----	-	105	35	5.1	73.4	2.9	5.8	34.4	152.6	169.0	320.2	4.4	6.7	146.7
Albion -----	-	9	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Amityville -----	E3	49	12	0.8	7.9	0.6	1.1	4.8	12.7	11.7	24.3	0.4	1.4	16.3
Amsterdam -----	E2	59	30	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.4	48.1
Ardsley -----	E2	6	3	1.2	24.2	0.1	0.1	0.7	2.0	1.0	3.1	0.1	(NA)	(NA)
Auburn -----	-	64	25	4.6	56.1	3.0	5.7	31.1	103.5	133.0	240.3	8.5	5.2	104.1
Avon -----	-	5	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Baldwinsville -----	-	11	8	1.6	23.4	1.1	2.0	13.3	54.1	78.0	131.3	(D)	1.0	19.5
Batavia -----	-	46	23	2.8	35.0	2.0	3.7	21.0	58.3	94.6	157.6	3.5	4.0	38.7
Beacon -----	-	24	15	2.1	23.6	1.7	3.6	17.0	49.3	62.7	111.5	1.8	(D)	(D)
Binghamton -----	-	116	42	8.4	92.4	6.0	11.1	57.9	165.6	193.8	367.8	11.8	12.1	195.0
Brentwood (U) -----	E2	17	8	0.5	4.4	0.4	0.7	2.9	7.8	9.0	16.8	0.3	0.5	5.2
Brockport -----	-	11	3	1.5	18.9	1.2	2.4	15.0	58.0	36.4	94.6	2.1	1.4	34.3
Buffalo -----	-	725	271	46.4	692.5	33.4	66.4	458.8	1 445.1	1 864.8	3 282.1	79.7	53.2	1 052.1
Camden -----	-	11	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Canajoharie -----	-	7	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Canandaigua -----	-	16	7	1.2	12.9	0.9	1.7	7.8	39.5	50.1	88.3	4.0	0.7	13.3
Canastota -----	-	16	5	0.5	6.4	0.4	0.8	4.5	15.8	37.5	54.3	0.9	0.7	11.8
Carthage -----	-	8	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	12.5
Central Islip (U) -----	E2	53	15	1.0	11.1	0.7	1.2	6.5	26.2	35.9	60.2	0.9	(NA)	(NA)
Cobleskill -----	E2	16	5	0.6	4.6	0.4	0.8	2.9	9.6	9.0	17.6	0.7	(NA)	(NA)
Cohoes -----	-	30	13	1.7	16.5	1.4	2.8	12.5	31.7	66.2	96.0	1.7	2.3	27.6
Corinth -----	-	16	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Corning -----	-	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cortland -----	-	35	11	2.4	23.7	1.7	3.4	15.3	31.9	63.5	101.8	1.5	3.8	57.8
Dansville -----	-	9	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Deer Park (U) -----	E1	226	47	7.4	97.0	5.9	11.2	71.5	214.5	109.4	321.6	10.9	6.2	117.7
Depew -----	-	30	9	1.9	26.9	1.6	2.9	21.7	43.5	29.3	71.8	2.0	3.2	50.3
Dobbs Ferry -----	E4	21	6	0.8	14.6	0.1	0.3	1.1	5.9	4.6	10.3	0.2	(NA)	(NA)
Dolgeville -----	-	9	4	0.9	6.3	0.8	1.5	4.4	12.6	9.8	22.1	0.3	1.1	12.1
Dunkirk -----	-	38	21	4.2	65.6	3.4	6.6	51.9	150.0	189.3	337.3	22.0	3.6	52.7
East Aurora -----	-	24	5	2.2	26.2	1.5	2.7	13.5	37.4	34.0	71.6	(D)	(D)	(D)
East Rochester -----	-	14	6	0.7	5.9	0.5	1.1	3.8	16.4	11.2	27.1	0.5	0.9	14.3
Ellenville -----	-	15	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	25.5
Elmira -----	-	49	22	4.8	59.3	3.2	6.4	36.1	131.3	82.7	211.4	6.2	5.9	85.5
Elmira Heights -----	-	11	7	1.2	16.4	0.8	1.5	9.9	32.3	30.0	61.6	1.2	(D)	(D)
Endicott -----	-	33	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Fairport -----	-	16	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	32.6
Falconer -----	-	21	9	1.4	15.4	1.1	2.0	10.5	33.9	23.4	55.6	(D)	1.8	28.7
Farmingdale -----	-	88	25	7.5	129.0	4.8	9.0	72.5	246.9	158.7	377.6	12.0	3.9	63.3
Fayetteville -----	E1	13	6	0.6	6.8	0.5	0.9	5.3	11.7	8.5	20.0	0.8	0.6	8.7
Fort Edward -----	-	7	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Freeport -----	E1	161	43	2.9	32.9	2.2	4.3	20.5	73.7	120.0	191.8	3.7	3.0	43.9
Fulton -----	-	25	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	73.5
Garden City -----	-	36	12	3.0	49.2	1.2	2.3	16.6	105.0	53.4	157.4	(D)	6.2	93.2
Geneva -----	-	20	8	1.0	13.9	0.8	1.5	10.1	30.7	25.8	58.1	0.8	1.5	23.1
Glen Cove -----	-	60	24	4.7	53.8	3.1	6.1	28.2	122.7	110.6	229.8	7.6	4.3	90.2
Glens Falls -----	-	44	18	3.1	38.0	2.4	4.6	27.2	88.2	105.9	193.0	(D)	4.4	73.5
Gloversville -----	-	91	34	4.1	36.2	3.4	6.7	26.2	78.0	105.3	183.7	3.4	4.0	51.2
Gowanda -----	-	14	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	13.7
Granville -----	-	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Great Neck Plaza -----	E2	33	8	0.6	8.1	0.3	0.6	2.4	5.0	3.9	8.9	0.1	(NA)	(NA)
Green Island -----	-	8	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Harrison -----	E1	13	4	0.7	8.9	(Z)	0.1	0.5	2.2	1.5	3.8	0.1	(NA)	(NA)
Haverstraw -----	-	17	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hempstead -----	E1	53	17	1.1	11.3	0.7	1.7	6.3	25.7	27.5	52.8	0.6	1.3	23.3
Herkimer -----	-	11	7	0.5	5.9	0.3	0.6	2.8	9.9	10.8	20.5	(D)	(D)	(D)
Hicksville (U) -----	E1	137	45	5.1	59.5	3.3	6.4	31.6	122.2	116.6	243.9	8.3	4.3	87.7
Hoosick Falls -----	-	13	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	10.5
Hornell -----	-	13	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	11.7
Horseheads -----	-	19	11	3.6	44.9	2.4	4.8	27.0	71.9	101.6	173.6	2.5	4.3	73.6
Hudson -----	E1	35	12	1.1	11.1	0.8	1.6	6.8	36.3	24.8	60.6	0.8	1.3	21.3
Hudson Falls -----	-	15	6	2.2	30.5	1.7	3.3	18.7	64.1	50.7	115.4	(D)	2.4	43.4
Huntington Station (U) -----	E1	67	12	1.1	12.3	0.8	1.6	7.0	21.7	17.2	39.7	1.2	0.8	10.1
Ilion -----	-	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Ithaca -----	-	50	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jamestown -----	-	106	39	6.1	74.7	4.1	8.5	47.1	132.9	90.4	223.1	6.5	9.1	145.0
Johnson City -----	-	33	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Johnstown -----	E1	53	25	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	29.5
Kingston -----	E2	72	27	1.9	17.5	1.5	2.9	12.3	36.4	21.6	57.4	0.8	(D)	(D)
Lake Success -----	-	11	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.3	99.7
Lakewood -----	-	10	4	0.5	7.8	0.3	0.6	3.7	12.5	15.3	26.3	(D)	(NA)	(NA)
Lancaster -----	-	20	7	1.0	12.6	0.7	1.3	7.0	25.8	17.4	42.8	1.2	1.0	17.0
Le Roy -----	-	13	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	37.6
Lindenhurst -----	E2	103	27	2.1	21.0	1.6	2.9	13.7	32.7	37.2	71.3	3.4	1.9	23.3
Little Falls -----	-	23	10	1.3	12.1	1.0	2.1	9.3	29.0	30.0	64.2	2.4	2.1	30.4
Lockport -----	-	51	23	11.4	205.0	9.3	19.0	161.9	757.3	495.2	1 245.6	31.3	11.0	458.3
Lynbrook -----	E3	80	26	1.5	15.1	1.2	2.3	9.3	28.6	34.2	62.6	0.8	1.7	23.6
Malone -----	-	17	5	0.6	3.7	0.5	0.8	2.9	9.7	9.5	19.1	0.2	0.6	6.5
Mamaroneck -----	-	55	16	1.7	19.8	1.4	2.6	13.1	34.9	77.8	112.5	1.6	1.8	23.6
Manlius -----	-	14	6	0.7	8.0	0.6	1.1	4.9	13.8	13.4	27.6	0.6	0.7	9.3
Medina -----	-	21	9	1.9	18.9	1.6	3.2	15.4	58.4	42.0	99.6	1.1	1.6	31.8

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972			
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)							
CITIES—Con.															
Middletown	E1	55	19	2.7	26.9	1.8	3.4	15.1	126.7	49.6	175.7	2.1	2.4	48.5	
Mineola	-	97	26	2.0	21.6	1.5	3.0	13.5	50.0	49.4	97.6	2.1	2.4	42.8	
Mount Kisco	E2	22	7	0.9	9.6	0.6	1.2	5.6	17.6	15.0	33.2	1.4	0.7	9.8	
Mount Vernon	E1	290	103	8.7	99.7	6.2	11.5	52.3	212.0	330.1	538.3	9.4	8.9	146.8	
Newark	-	18	8	1.3	12.1	1.0	2.1	8.4	18.1	21.8	40.0	0.3	1.1	15.6	
Newburgh	-	80	43	3.5	32.5	2.8	5.2	22.7	66.3	63.7	127.5	3.2	5.2	66.5	
New Hyde Park	E1	54	21	1.8	22.0	1.3	2.5	14.6	41.9	27.5	68.9	1.1	1.5	30.0	
New Rochelle	-	114	34	3.5	44.7	2.2	3.9	22.4	102.6	126.0	228.0	2.9	3.7	52.6	
New York	E1	21 460	6 607	609.7	7 640.0	386.9	710.1	3 386.6	14 606.2	15 116.1	29 559.7	560.4	757.5	11 579.4	
Niagara Falls	-	91	42	10.7	176.0	7.1	14.6	107.2	512.5	430.3	928.6	75.9	11.8	264.7	
North Tarrytown	-	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
North Tonawanda	-	72	31	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.4	97.4	
Norwich	-	21	9	1.6	19.8	0.9	1.9	6.9	11.1	18.0	33.9	0.7	3.2	71.0	
Nyack	-	12	6	0.5	4.5	0.3	0.5	2.4	8.4	12.7	21.2	0.3	0.8	8.2	
Oceanside (U)	E2	77	21	1.3	13.9	0.9	1.7	8.7	30.9	23.3	53.8	1.8	1.1	20.8	
Ogdensburg	-	21	7	0.8	7.6	0.6	1.3	5.7	22.6	16.6	38.3	1.6	0.9	12.6	
Olean	-	35	17	4.9	66.2	3.2	5.8	39.6	184.1	118.8	304.0	6.1	4.0	78.7	
Oneida	E1	27	12	0.9	11.3	0.5	1.0	4.4	14.1	45.1	57.4	2.1	0.9	10.0	
Oneonta	-	16	7	0.5	4.4	0.4	0.8	2.9	9.6	13.1	22.2	0.8	0.9	12.0	
Ossining	-	35	12	0.9	11.7	0.7	1.3	6.1	18.5	17.0	34.8	1.9	1.1	14.4	
Oswego	-	22	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	16.4	
Owego	-	15	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Palmyra	-	9	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Patchogue	-	46	12	0.7	6.1	0.6	1.0	4.6	17.1	22.0	39.3	0.6	1.1	11.5	
Peekskill	E1	43	14	1.2	12.1	0.9	1.7	7.6	32.8	19.6	53.4	2.1	(D)	(D)	
Pelham Manor	E1	20	6	1.0	9.3	0.6	0.8	3.9	22.6	29.7	50.7	0.7	1.6	29.4	
Perry	-	8	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	7.9	
Plainville (U)	E1	118	59	4.8	58.5	3.1	5.8	29.2	126.2	95.4	218.9	6.2	7.4	117.6	
Plattsburgh	-	37	12	1.9	23.3	1.5	2.9	17.0	51.8	71.9	120.8	4.4	1.8	28.8	
Pleasantville	-	17	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Port Chester	E1	74	18	2.1	23.1	1.6	3.1	14.6	86.5	42.9	129.3	4.1	3.0	60.8	
Port Jervis	E1	27	11	1.8	14.6	1.2	2.3	10.0	24.7	12.9	37.9	0.9	1.9	17.3	
Poughkeepsie	E1	66	23	2.5	26.6	2.1	4.0	19.8	51.2	31.2	83.3	1.8	4.2	56.9	
Rensselaer	-	14	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	80.6	
Rochester	-	621	207	86.5	1 506.8	46.7	90.9	704.1	3 456.1	1 606.0	5 053.3	223.2	89.9	2 393.3	
Rockville Centre	E3	35	6	0.5	5.6	0.4	0.8	3.5	10.9	8.9	19.8	1.1	0.5	10.2	
Rome	-	55	19	4.6	67.0	3.4	6.7	47.0	129.0	247.5	368.2	6.4	4.7	90.2	
Saratoga Springs	-	21	9	0.9	8.6	0.5	0.9	4.1	13.9	31.6	45.5	0.9	1.2	22.9	
Schenectady	-	92	36	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Seneca Falls	-	20	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	71.1	
Sherrill	-	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Sidney	-	6	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Solvay	-	10	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Springville	-	11	4	0.7	8.7	0.5	1.0	5.7	19.6	12.3	31.1	1.0	0.5	6.6	
Suffern	-	16	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Syracuse	-	259	89	19.7	304.5	11.2	21.4	149.5	569.3	388.1	954.1	24.9	25.7	471.4	
Tarrytown	-	24	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	7.5	
Ticonderoga	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Tonawanda	-	52	20	1.7	23.8	1.1	2.0	11.6	39.3	43.8	82.7	2.0	13.3	301.6	
Troy	-	53	17	2.9	32.5	1.8	3.2	16.9	63.2	54.0	118.1	2.2	4.7	65.3	
Tuckahoe	-	21	7	0.7	7.7	0.5	0.9	4.2	16.1	13.4	29.2	1.6	0.5	7.9	
Utica	-	118	43	7.0	79.0	4.7	8.6	45.2	159.1	159.6	313.7	8.2	7.1	139.3	
Valley Stream	E5	91	13	1.1	12.8	0.8	1.6	7.8	22.7	14.7	37.2	1.3	1.1	15.0	
Walden	-	22	12	0.9	8.5	0.7	1.4	5.8	19.3	15.7	34.6	0.8	0.9	16.1	
Walton	-	9	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Watertown	-	38	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.0	56.8	
Watervliet	-	18	7	1.8	25.3	1.3	2.6	16.6	34.9	51.2	93.2	(D)	4.6	69.9	
Watkins Glen	-	9	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	11.5	
Webster	-	15	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Wellsville	-	9	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Westbury	E1	42	9	0.7	8.9	0.5	1.0	5.8	17.8	21.7	39.1	1.8	1.2	20.0	
Westfield	-	15	7	1.0	14.0	0.5	0.9	4.8	17.3	24.7	43.0	1.5	0.9	10.6	
West Haverstraw	E1	23	7	0.6	5.9	0.5	0.9	4.2	11.1	8.4	19.7	0.2	0.6	6.5	
White Plains	E2	85	26	11.2	218.9	0.9	1.6	9.2	57.3	32.7	89.2	1.6	5.4	18.6	
Yonkers	-	248	75	8.9	116.8	5.2	10.3	52.3	242.1	320.7	570.9	14.0	12.5	202.5	

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E10—100 percent.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	All industries -----	-	36 578	11 425	1 509.9	20 876.1	958.1	1 827.5	10 418.8	44 289.8	42 441.9	86 216.4	2 530.2	1 679.3	30 403.5
20	Food and kindred products -----	-	1 852	613	75.2	984.5	51.9	104.1	604.1	3 311.1	5 622.4	8 927.0	191.0	92.3	2 328.1
201	Meat products -----	E1	246	80	7.5	103.3	5.8	11.8	73.3	234.2	669.3	900.9	11.3	9.8	182.3
2011	Meat packing plants -----	E3	90	16	2.2	29.3	1.6	3.3	20.5	65.2	236.5	301.0	2.4	2.9	57.3
2013	Sausages and other prepared meats -----	-	137	57	4.7	68.6	3.6	7.5	48.6	157.1	399.5	555.8	7.3	5.7	103.9
2016	Poultry dressing plants -----	-	12	5	0.4	3.4	0.4	0.6	2.6	7.1	18.8	25.4	(D)	CC	(D)
2017	Poultry and egg processing --	E1	7	2	0.2	1.9	0.2	0.4	1.6	4.7	14.6	18.8	(D)	BB	(D)
202	Dairy products -----	-	313	110	10.1	133.6	6.2	12.8	76.2	372.6	1 333.5	1 706.2	21.3	12.7	274.6
2022	Cheese, natural and processed -----	-	44	23	1.7	18.0	1.3	2.7	13.4	52.8	240.8	299.0	4.0	EE	(D)
2023	Condensed and evaporated milk -----	-	18	7	0.6	6.6	0.5	0.9	4.8	25.5	159.0	183.3	1.5	0.7	16.6
2024	Ice cream and frozen desserts -----	-	62	19	2.1	28.3	1.2	2.4	14.9	71.6	134.9	206.3	6.4	2.4	61.9
2026	Fluid milk -----	-	187	61	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.3	174.7
203	Preserved fruits and vegetables -----	-	191	86	10.9	114.6	8.4	16.4	75.0	478.3	582.5	1 060.8	13.1	12.9	346.5
2032	Canned specialties -----	-	17	7	1.7	18.7	1.3	2.6	13.1	74.4	91.8	166.4	1.3	1.4	79.5
2033	Canned fruits and vegetables -----	-	77	40	4.0	41.8	3.2	6.5	27.2	169.6	259.3	428.6	6.5	4.7	83.4
2034	Dehydrated fruits, vegetables, and soups -----	-	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2035	Pickles, sauces, and salad dressings -----	E1	45	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	51.0
2037	Frozen fruits and vegetables -----	-	15	8	1.2	10.8	1.0	1.9	8.0	41.1	49.1	90.3	1.4	EE	(D)
2038	Frozen specialties -----	-	30	15	2.4	25.9	1.7	3.1	15.3	137.6	105.8	243.4	2.0	2.5	60.3
204	Grain mill products -----	-	100	41	5.2	81.2	4.0	8.6	59.0	380.5	623.3	1 002.0	11.6	4.6	162.7
2041	Flour and other grain mill products -----	-	15	9	1.1	19.5	0.9	1.9	15.0	58.4	240.6	299.8	1.6	0.9	30.1
2043	Cereal breakfast foods -----	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2045	Blended and prepared flour --	-	7	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	16.8
2047	Dog, cat, and other pet food -----	-	14	8	1.1	15.0	0.9	1.8	11.5	115.9	73.6	188.8	3.6	CC	(D)
2048	Prepared feeds, n.e.c. -----	-	59	13	0.9	10.6	0.6	1.2	6.1	33.7	186.5	220.1	1.6	1.3	23.4
205	Bakery products -----	E1	411	96	14.4	187.8	8.6	16.6	97.1	442.4	334.7	777.1	13.0	18.0	310.7
2051	Bread, cake, and related products -----	E1	376	85	13.3	172.6	7.7	15.0	88.5	403.0	315.4	718.3	12.5	16.7	288.2
2052	Cookies and crackers -----	E1	35	11	1.1	15.3	0.8	1.6	8.6	32.6	26.1	58.8	1.0	1.3	22.5
206	Sugar and confectionery products -----	-	94	36	9.7	115.6	7.6	14.8	83.1	522.7	608.1	1 131.1	41.5	9.0	248.5
2062	Cane sugar refining -----	-	7	5	1.6	27.0	1.0	2.0	16.8	88.5	277.8	366.4	23.9	EE	(D)
2065	Confectionery products -----	-	76	26	4.0	39.9	3.2	6.2	28.5	116.5	106.6	224.7	5.8	3.9	61.8
2066	Chocolate and cocoa products -----	-	8	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2067	Chewing gum -----	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
207	Fats and oils -----	-	24	6	0.5	8.5	0.4	0.7	5.2	32.3	113.5	146.8	2.8	0.8	29.9
2077	Animal and marine fats and oils -----	E2	16	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	12.7
2079	Shortening and cooking oils -----	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
208	Beverages -----	-	205	85	10.3	166.0	6.1	12.2	87.9	577.4	873.3	1 451.1	61.1	16.6	578.6
2082	Malt beverages -----	-	12	5	2.9	59.1	2.1	4.3	41.2	170.0	327.2	495.1	38.2	6.3	245.2
2084	Wines, brandy, and brandy spirits -----	-	24	10	1.4	20.6	0.9	1.8	8.9	72.3	94.2	168.8	4.0	1.6	63.7
2086	Bottled and canned soft drinks -----	-	126	57	5.2	74.3	2.5	4.9	31.6	216.8	352.7	568.9	17.0	7.2	180.1
2087	Flavoring extracts and sirups, n.e.c. -----	E1	37	10	0.7	10.4	0.4	1.0	4.9	111.9	78.8	190.4	1.7	1.2	76.8
209	Miscellaneous foods and kindred products -----	-	268	73	6.6	73.9	5.0	10.2	47.3	270.7	484.1	751.2	15.4	8.0	194.2
2091	Canned and cured seafoods -----	-	17	9	0.5	5.6	0.4	0.7	3.6	18.4	32.6	51.2	0.4	0.6	10.5
2092	Fresh or frozen packaged fish -----	E1	22	4	0.4	3.7	0.3	0.7	2.6	10.2	18.9	29.5	(D)	0.5	6.0
2095	Roasted coffee -----	-	20	12	0.6	9.0	0.4	0.8	4.2	52.7	198.9	248.6	0.8	0.7	30.7
2098	Macaroni and spaghetti -----	-	38	11	1.4	14.7	1.0	2.3	9.5	47.1	54.1	101.3	1.5	1.4	23.2
2099	Food preparations, n.e.c. -----	-	149	35	3.6	39.5	2.8	5.6	26.5	139.6	178.2	316.4	11.8	4.6	120.1
21	Tobacco products -----	-	13	4	0.3	3.4	0.3	0.6	2.4	12.9	11.5	24.0	(D)	AA	(D)
2131	Chewing and smoking tobacco -----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
22	Textile mill products --	E2	1 243	524	43.0	402.7	36.1	70.6	288.4	756.9	1 150.3	1 905.5	62.0	55.6	777.3
2211	Weaving mills, cotton -----	E2	20	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2221	Weaving mills, manmade fiber and silk -----	E2	20	7	0.8	8.2	0.6	1.2	6.2	9.8	16.3	26.5	1.2	1.2	14.1
2231	Weaving and finishing mills, wool -----	E1	23	7	0.9	11.8	0.5	1.2	6.0	21.9	7.4	29.8	1.7	1.3	21.2
2241	Narrow fabric mills -----	E1	51	12	1.6	15.2	1.2	2.3	9.3	34.6	27.0	60.5	1.7	2.0	22.2

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
22	Textile mill products— Con.														
225	Knitting mills -----	E2	791	377	29.1	256.0	25.2	48.1	187.8	471.7	819.3	1 287.7	41.2	35.7	512.6
2251	Women's hosiery, except socks -----	E9	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	0.8
2252	Hosiery, n.e.c. -----	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2253	Knit outerwear mills -----	E2	477	254	17.5	149.1	15.1	28.1	110.1	259.9	372.7	628.4	17.1	20.6	239.8
2254	Knit underwear mills -----	-	14	9	1.0	7.2	1.0	1.7	6.0	15.4	14.9	29.8	0.1	EE	(D)
2257	Circular knit fabric mills -----	E1	157	61	5.9	59.8	5.0	10.2	43.0	116.2	270.2	389.1	9.4	8.4	181.4
2258	Warp knit fabric mills -----	-	51	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.3	50.2
2259	Knitting mills, n.e.c. -----	E4	79	24	1.6	11.8	1.4	2.7	9.2	15.6	27.2	42.6	(D)	EE	(D)
226	Textile finishing, except wool -----	E2	99	42	3.1	33.7	2.6	5.7	26.0	57.2	62.2	122.3	5.7	6.0	76.5
2261	Finishing plants, cotton -----	E5	28	6	0.4	4.8	0.3	0.7	3.9	5.4	7.8	15.3	0.6	1.6	25.4
2262	Finishing plants, synthetics -----	E1	45	27	2.0	22.4	1.7	3.8	16.8	40.6	46.6	88.0	3.2	2.4	27.7
2269	Finishing plants, n.e.c. -----	E2	26	9	0.6	6.5	0.6	1.2	5.3	11.2	7.8	19.0	1.8	1.9	23.4
227	Floor covering mills -----	E6	13	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2272	Tufted carpets and rugs -----	E6	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
228	Yarn and thread mills -----	E2	50	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2281	Yarn mills, except wool -----	E1	21	5	1.2	11.1	0.9	1.8	7.7	16.4	23.9	43.5	0.2	0.5	3.7
2282	Throwing and winding mills -----	E4	12	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
229	Miscellaneous textile goods -----	E1	176	62	5.0	54.2	4.0	7.9	36.1	119.0	160.5	276.1	5.5	7.4	106.1
2291	Felt goods, except woven felts and hats -----	-	4	4	1.0	13.0	0.7	1.3	7.3	25.5	14.5	39.8	0.9	1.1	19.1
2292	Lace goods -----	E1	14	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	5.5
2293	Paddings and upholstery filling -----	E2	10	4	0.3	2.9	0.2	0.5	2.0	6.5	7.6	14.1	0.2	0.5	6.1
2295	Coated fabrics, not rubberized -----	-	23	15	0.8	9.6	0.6	1.2	5.7	20.8	37.1	57.6	1.3	1.7	31.9
2296	Tire cord and fabric -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2297	Nonwoven fabrics -----	-	14	8	0.5	5.4	0.4	0.7	3.3	16.0	29.1	44.4	0.8	BB	(D)
2298	Cordage and twine -----	-	10	6	0.6	6.6	0.5	1.1	4.7	15.5	15.4	29.7	0.4	1.5	13.3
2299	Textile goods, n.e.c. -----	E4	93	19	1.1	9.8	0.9	1.9	7.2	20.0	25.8	45.4	1.6	1.3	17.9
23	Apparel and other textile products -----	E1	7 797	3 082	214.4	1 751.8	177.4	306.2	1 183.8	3 889.7	5 302.8	9 117.6	78.8	247.3	3 160.3
2311	Men's and boys' suits and coats -----	E1	174	82	15.4	143.5	13.3	23.9	113.1	259.1	217.4	475.6	4.2	23.5	286.3
232	Men's and boys' furnishings -----	E1	500	212	22.0	168.7	17.3	30.5	109.3	399.4	654.0	1 024.0	13.4	20.5	314.1
2321	Men's and boys' shirts and nightwear -----	-	156	69	6.1	49.5	5.0	9.0	29.2	161.8	333.6	463.2	1.8	6.9	107.5
2322	Men's and boys' underwear -----	E1	12	4	0.3	1.9	0.2	0.4	1.4	3.9	5.0	9.8	(Z)	CC	(D)
2323	Men's and boys' neckwear -----	E3	87	35	2.3	22.8	1.9	3.4	14.5	45.8	43.8	87.9	1.6	FF	(D)
2327	Men's and boys' separate trousers -----	E1	103	33	7.8	53.3	5.5	8.9	34.7	108.3	159.0	269.6	3.5	2.8	61.8
2328	Men's and boys' work clothing -----	E3	32	20	0.9	6.5	0.8	1.4	5.0	13.0	15.4	28.6	0.2	1.1	23.7
2329	Men's and boys' clothing, n.e.c. -----	E1	110	51	4.5	34.7	3.9	7.5	24.5	66.6	97.1	165.0	6.2	4.8	55.8
233	Women's and misses' outerwear -----	E2	4 043	1 816	108.3	863.5	90.0	153.9	577.5	2 023.6	2 626.2	4 618.4	37.6	115.5	1 425.3
2331	Women's and misses' blouses and waists -----	-	353	197	12.4	103.3	10.3	17.5	65.3	331.9	427.1	755.6	6.1	10.5	160.6
2335	Women's and misses' dresses -----	E3	2 450	957	54.0	406.6	45.3	77.6	279.3	837.3	964.5	1 792.1	17.0	64.0	716.5
2337	Women's and misses' suits and coats -----	E1	648	349	20.8	185.5	17.1	30.0	123.3	420.2	595.5	1 011.4	5.4	25.1	353.0
2339	Women's and misses' outerwear, n.e.c. -----	E2	592	313	21.2	168.1	17.3	28.8	109.6	434.2	639.0	1 059.2	9.1	16.2	195.3
234	Women's and children's undergarments -----	-	332	166	12.6	101.1	9.8	17.2	56.5	229.8	350.5	577.7	2.6	16.9	246.4
2341	Women's and children's underwear -----	E1	266	132	8.8	70.1	7.0	12.4	41.5	161.7	257.7	416.6	1.7	9.8	147.8
2342	Brassieres and allied garments -----	-	66	34	3.8	31.0	2.8	4.8	15.0	68.2	92.8	161.1	0.9	7.1	99.7
235	Hats, caps, and millinery -----	E3	181	54	3.3	24.4	2.8	4.8	17.5	42.1	46.8	88.6	0.7	3.7	37.5
2351	Millinery -----	E3	95	26	1.4	11.2	1.1	1.9	7.2	19.9	26.3	46.0	0.1	EE	(D)
2352	Hats and caps, except millinery -----	E3	86	28	1.9	13.2	1.7	2.9	10.2	22.2	20.5	42.6	0.6	EE	(D)
236	Children's outerwear -----	E1	321	169	10.9	82.1	9.1	16.1	56.9	181.6	259.0	439.7	2.3	15.3	205.9
2361	Children's dresses and blouses -----	E1	154	91	5.6	44.0	4.5	8.3	29.2	103.4	141.5	241.9	1.1	6.7	97.5
2363	Children's coats and suits -----	E1	46	19	1.3	10.3	1.1	1.8	7.1	21.5	34.7	55.4	0.5	2.8	35.0
2369	Children's outerwear, n.e.c. -----	E2	121	59	4.0	27.8	3.5	6.0	20.6	56.7	82.9	142.3	0.8	5.7	73.5
2371	Fur goods -----	E2	531	40	3.4	45.2	2.6	4.3	31.6	101.5	250.1	349.0	0.4	3.9	76.3
238	Miscellaneous apparel and accessories -----	E1	489	205	12.8	102.1	11.0	18.9	70.1	222.9	274.6	491.1	7.0	17.1	214.5
2381	Fabric dress and work gloves -----	E1	21	7	0.3	2.2	0.3	0.5	1.8	6.4	5.8	12.3	(D)	0.3	3.1
2384	Robes and dressing gowns -----	E1	68	42	3.2	24.3	2.7	4.7	16.9	64.6	85.3	147.1	1.5	3.6	46.8
2385	Waterproof outer garments -----	E1	62	37	1.9	15.3	1.6	2.7	9.7	37.4	43.4	80.5	2.5	3.6	46.3
2386	Leather and sheep lined clothing -----	E1	116	37	2.3	20.3	2.0	3.4	15.1	33.7	59.5	92.3	0.4	2.5	32.8
2387	Apparel belts -----	E1	142	55	3.2	25.7	2.7	4.5	16.3	48.4	48.1	95.0	0.9	5.1	63.8
2389	Apparel and accessories, n.e.c. -----	-	80	27	1.9	14.4	1.7	3.0	10.3	32.4	32.5	63.9	1.8	2.0	21.7

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital ex- pend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
23	Apparel and other textile products—Con.														
239	Miscellaneous fabricated textile products -----	E1	1 226	338	25.8	221.2	21.6	38.8	151.4	429.7	624.3	1 053.4	10.5	30.8	354.1
2391	Curtains and draperies -----	E1	175	41	2.9	24.5	2.5	4.3	17.2	54.5	109.3	163.3	0.6	3.6	41.0
2392	House furnishings, n.e.c. -----	E1	272	85	8.0	61.9	6.5	12.1	40.3	124.8	233.0	356.2	3.4	8.5	111.6
2393	Textile bags -----	E1	32	10	0.9	7.0	0.7	1.3	4.6	11.3	14.6	26.0	0.2	1.0	9.5
2394	Canvas and related products -----	E1	83	15	1.6	13.2	1.3	2.3	9.3	22.0	23.8	45.1	0.6	1.3	14.0
2395	Pleating and stitching -----	E1	254	75	5.3	44.8	4.5	7.8	31.0	89.8	111.8	202.1	2.4	5.8	73.8
2396	Automotive and apparel trimmings -----	E3	258	69	4.1	45.0	3.5	6.3	31.7	77.4	86.3	164.6	1.8	5.7	66.5
2397	Schiffli machine embroideries -----	E1	19	5	0.3	2.2	0.2	0.4	1.6	6.3	5.8	11.9	0.2	0.3	4.0
2399	Fabricated textile products, n.e.c. -----	E2	133	38	2.8	22.7	2.4	4.1	15.8	43.7	39.7	84.2	1.3	3.5	33.7
24	Lumber and wood products -----	E1	1 119	184	14.8	144.9	12.4	23.5	102.4	273.2	378.7	550.6	(D)	17.6	240.8
2411	Logging camps and logging contractors -----	E1	188	6	0.9	11.0	0.7	1.4	7.9	19.0	67.6	88.4	4.6	0.5	4.9
242	Sawmills and planing mills -----	E2	260	46	3.1	26.9	2.7	5.5	21.6	59.7	62.0	121.3	7.1	3.2	39.4
2421	Sawmills and planing mills, general -----	E2	210	28	2.1	19.3	1.9	3.9	15.5	47.6	48.0	95.2	6.3	1.9	27.9
2426	Hardwood dimension and flooring -----	E1	49	17	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
243	Millwork, plywood, and structural members -----	E2	291	53	4.8	49.4	4.0	7.5	34.8	90.1	111.9	199.5	3.7	6.0	82.9
2431	Millwork -----	E1	132	23	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	42.2
2434	Wood kitchen cabinets -----	E2	133	21	1.9	19.1	1.5	2.8	13.9	32.5	22.7	55.0	0.7	2.1	25.5
2435	Hardwood veneer and plywood -----	E3	12	4	0.3	3.1	0.3	0.6	2.5	5.3	5.3	10.5	0.2	CC	(D)
2436	Softwood veneer and plywood -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
244	Wood containers -----	E1	90	18	1.2	10.9	1.1	2.0	7.7	18.0	22.1	39.9	1.1	1.5	14.5
2441	Nailed wood boxes and shook -----	E2	31	5	0.3	2.8	0.3	0.6	2.0	4.2	5.5	9.6	0.2	0.8	6.0
2448	Wood pallets and skids -----	E1	50	11	0.7	6.3	0.6	1.1	4.4	10.9	14.1	25.0	0.9	0.5	6.1
2449	Wood containers, n.e.c. -----	-	9	2	0.2	1.8	0.2	0.3	1.3	2.9	2.5	5.3	0.1	0.2	2.4
245	Wood buildings and mobile homes -----	E1	28	13	1.0	11.8	0.7	1.3	6.4	20.9	48.3	69.1	(D)	2.0	43.8
2451	Mobile homes -----	-	5	4	0.3	3.3	0.2	0.4	2.1	5.0	13.5	18.8	0.1	0.3	2.8
2452	Prefabricated wood buildings -----	E1	23	9	0.7	8.5	0.5	0.8	4.3	15.9	34.8	50.3	(D)	1.8	41.0
249	Miscellaneous wood products --	E2	262	48	3.8	34.9	3.1	5.8	24.1	65.5	66.8	132.5	3.3	4.5	55.2
2499	Wood products, n.e.c. -----	E2	256	48	3.7	34.5	3.1	5.8	23.8	64.7	64.9	129.8	3.2	FF	(D)
25	Furniture and fixtures -	E1	1 028	257	24.3	250.6	19.7	37.8	176.2	463.6	385.9	843.8	18.5	28.3	395.7
251	Household furniture -----	E2	537	121	11.4	107.7	9.6	18.2	78.3	194.4	175.0	367.8	(D)	14.0	174.4
2511	Wood household furniture --	E2	279	61	5.7	49.7	4.9	9.5	39.1	85.5	68.9	153.6	4.3	5.5	59.4
2512	Upholstered household furniture -----	E1	84	17	2.1	19.3	1.7	3.1	14.5	33.8	30.1	63.7	0.5	FF	(D)
2514	Metal household furniture -----	E2	76	22	2.1	23.2	1.8	3.4	14.7	42.9	39.0	81.6	(D)	FF	(D)
2515	Mattresses and bedsprings --	E2	70	15	1.0	10.8	0.7	1.3	6.8	22.0	26.5	48.4	0.3	1.9	25.3
2517	Wood TV and radio cabinets -----	E5	11	2	0.2	1.6	0.2	0.3	1.2	2.5	2.2	4.7	(Z)	AA	(D)
2519	Household furniture, n.e.c. --	-	17	4	0.4	3.2	0.3	0.7	2.0	7.7	8.3	15.9	0.6	0.6	9.3
252	Office furniture -----	E1	60	27	3.6	37.2	2.8	5.5	25.4	75.5	47.0	121.0	(D)	3.9	63.6
2521	Wood office furniture -----	-	32	11	1.2	11.9	0.9	1.9	9.0	20.3	13.8	34.2	0.5	1.1	17.4
2522	Metal office furniture -----	E1	28	16	2.4	25.2	1.8	3.6	16.4	55.2	33.2	86.8	(D)	2.8	46.2
2531	Public building and related furniture -----	E1	16	2	0.4	4.6	0.2	0.5	2.3	7.5	7.8	15.4	(D)	0.8	16.2
254	Partitions and fixtures -----	E1	272	77	6.3	72.6	5.0	9.6	51.3	129.7	103.4	230.6	(D)	6.9	107.6
2541	Wood partitions and fixtures --	E1	167	45	3.4	42.2	2.8	5.4	31.1	70.5	49.8	118.6	(D)	3.8	62.2
2542	Metal partitions and fixtures -	E2	105	32	2.8	30.4	2.2	4.2	20.2	59.2	53.5	112.0	3.7	3.2	45.3
259	Miscellaneous furniture and fixtures -----	E1	143	30	2.7	28.5	2.1	4.0	18.9	56.5	52.8	108.9	(D)	2.7	33.8
2591	Drapery hardware and blinds and shades -----	E2	84	12	1.0	9.9	0.8	1.5	6.7	20.9	20.6	41.2	0.7	1.1	12.5
2599	Furniture and fixtures, n.e.c. -	-	59	18	1.7	18.7	1.3	2.5	12.2	35.6	32.2	67.7	(D)	1.5	21.3
26	Paper and allied products -----	E1	759	401	46.1	585.8	36.3	73.5	409.1	1 205.1	1 644.3	2 838.7	118.2	50.7	836.9
2621	Paper mills, except building paper -----	-	43	35	8.3	130.7	6.6	14.3	100.8	282.2	457.6	736.8	50.7	9.6	186.5
2631	Paperboard mills -----	-	16	12	1.1	15.0	0.9	2.0	12.1	30.0	38.3	69.0	11.4	EE	(D)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture ³ (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
26	Paper and allied products—Con.														
264	Miscellaneous converted paper products -----	E1	414	179	19.0	224.0	14.9	29.8	149.2	481.9	644.1	1 119.3	33.1	19.4	317.6
2641	Paper coating and glazing -----	E2	48	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	37.3
2642	Envelopes -----	-	39	28	3.3	36.0	2.6	5.0	25.5	75.0	76.8	150.8	4.0	2.9	44.1
2643	Bags, except textile bags -----	E2	91	44	4.9	57.9	3.8	7.5	35.3	118.7	169.0	286.7	13.0	5.2	79.4
2645	Die-cut paper and board -----	E1	74	28	2.1	26.6	1.7	3.4	17.9	52.5	58.2	109.9	2.7	FF	(D)
2646	Pressed and molded pulp goods -----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2647	Sanitary paper products -----	-	16	8	1.2	16.0	1.0	2.1	12.5	54.8	103.1	156.9	3.3	1.0	35.5
2648	Stationery products -----	E4	38	12	0.8	7.4	0.6	1.2	5.2	17.1	21.9	38.7	0.4	1.5	21.3
2649	Converted paper products, n.e.c. -----	E2	104	38	4.3	49.6	3.3	6.6	31.6	100.3	135.7	234.3	7.4	2.7	44.6
265	Paperboard containers and boxes -----	-	281	172	17.2	209.0	13.5	26.6	142.0	392.2	475.0	865.5	21.0	20.0	299.1
2651	Folding paperboard boxes -----	-	81	49	5.7	72.6	4.7	9.0	51.5	142.2	159.1	300.0	5.6	5.2	88.7
2652	Setup paperboard boxes -----	E2	62	39	2.9	24.7	2.5	4.5	17.5	41.8	27.2	69.2	1.6	4.1	45.9
2653	Corrugated and solid fiber boxes -----	E1	103	70	6.6	87.5	4.8	9.6	55.3	162.6	234.6	396.6	11.7	7.5	123.3
2654	Sanitary food containers -----	-	18	7	1.1	14.0	0.9	2.0	9.8	26.4	35.5	61.9	1.1	2.2	28.4
2655	Fiber cans, drums, and similar products -----	-	17	7	0.9	10.3	0.7	1.5	7.8	19.2	18.6	37.7	0.9	1.0	12.9
2661	Building paper and board mills -	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
27	Printing and publishing -----	-	6 301	1 204	154.3	2 296.9	69.8	127.8	926.1	6 351.9	3 461.0	9 823.6	206.6	164.9	4 222.7
2711	Newspapers -----	-	520	134	30.3	484.7	14.5	23.4	237.1	956.7	382.7	1 339.3	51.4	33.0	686.2
2721	Periodicals -----	-	568	145	28.8	477.9	2.1	4.0	31.5	2 004.7	1 198.8	3 196.5	24.5	26.0	1 069.4
273	Books -----	-	589	167	27.0	394.6	6.1	12.4	69.7	1 590.3	785.3	2 394.2	34.3	28.2	1 046.3
2731	Book publishing -----	-	424	112	21.8	328.8	2.1	4.6	24.1	1 483.0	699.9	2 198.7	30.2	22.7	951.6
2732	Book printing -----	E1	165	55	5.2	65.8	4.0	7.8	45.6	107.3	85.4	195.5	4.0	5.4	94.8
2741	Miscellaneous publishing -----	E1	477	65	8.0	99.4	2.1	3.9	17.4	256.6	109.4	364.7	5.2	8.7	172.8
275	Commercial printing -----	E1	3 135	430	40.1	569.6	29.9	55.5	384.3	1 036.3	760.2	1 793.4	67.8	44.4	825.2
2751	Commercial printing, letterpress -----	E3	1 688	164	13.3	161.9	10.3	18.6	108.1	297.8	226.0	522.9	20.4	17.9	295.8
2752	Commercial printing, lithographic -----	E1	1 317	245	24.0	369.7	17.5	33.3	247.4	656.3	495.9	1 149.0	41.9	23.9	476.8
2753	Engraving and plate printing -	-	75	15	2.2	31.4	1.7	2.8	23.7	70.6	21.2	92.8	3.9	1.9	38.1
2754	Commercial printing, gravure -----	E1	55	6	0.6	6.6	0.5	0.9	5.1	11.6	17.2	28.8	1.6	0.7	14.6
2761	Manifold business forms -----	-	72	32	2.7	36.8	2.0	4.0	23.6	86.3	68.7	155.0	4.2	2.5	47.4
2771	Greeting card publishing -----	E1	40	10	1.0	10.1	0.5	1.0	3.6	23.6	16.3	39.2	0.6	2.1	42.3
278	Blankbooks and bookbinding --	E1	330	103	7.3	74.8	6.2	12.0	56.2	136.0	64.9	200.3	5.3	9.8	138.1
2782	Blankbooks and looseleaf binders -----	E1	91	45	3.1	29.1	2.6	5.0	20.0	55.9	42.3	98.0	2.7	4.6	68.6
2783	Bookbinding and related work -----	E1	239	58	4.2	45.7	3.7	7.0	36.2	80.1	22.6	102.2	2.6	5.3	69.5
279	Printing trade services -----	E1	570	118	9.1	148.9	6.4	11.7	102.8	261.2	74.7	341.1	13.3	10.2	195.0
2791	Typesetting -----	E1	380	81	5.1	78.4	3.9	7.1	58.1	139.1	24.0	162.1	6.2	5.6	107.8
2793	Photoengraving -----	-	67	15	1.9	35.1	1.2	2.1	23.0	62.2	14.9	77.2	3.7	2.7	49.5
2795	Lithographic platemaking services -----	-	120	21	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	28.5
28	Chemicals and allied products -----	-	939	295	51.6	758.9	31.8	62.8	395.2	3 121.4	2 277.4	5 357.8	300.3	53.1	2 004.3
281	Industrial inorganic chemicals --	-	54	22	5.0	88.3	3.6	7.4	60.0	284.0	231.2	512.4	64.2	4.9	139.6
2812	Alkalies and chlorine -----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2813	Industrial gases -----	-	17	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2816	Inorganic pigments -----	-	7	4	1.0	16.5	0.8	1.6	11.5	51.1	59.5	106.7	(D)	1.3	31.3
2819	Industrial inorganic chemicals, n.e.c. -----	-	28	13	1.9	34.3	1.3	2.7	21.3	136.7	107.7	244.5	33.1	1.7	58.7
282	Plastics materials and synthetics -----	-	20	10	1.9	32.1	1.3	2.7	17.9	104.0	144.6	246.4	13.6	2.3	73.7
2821	Plastics materials and resins -	-	15	9	1.9	31.2	1.3	2.6	17.4	103.0	142.7	243.5	13.4	2.0	67.7
283	Drugs -----	-	136	52	18.1	271.9	9.6	18.6	121.0	1 112.3	518.9	1 608.4	41.0	16.4	917.8
2831	Biological products -----	-	17	9	0.8	10.3	0.5	1.0	5.8	34.9	17.8	51.5	1.6	BB	(D)
2833	Medicinals and botanicals -----	E1	21	8	0.8	12.6	0.5	1.0	7.2	46.5	39.6	84.1	2.9	CC	(D)
2834	Pharmaceutical preparations -	-	98	35	16.5	249.1	8.6	16.5	108.1	1 030.9	461.6	1 472.9	36.5	15.1	879.2
284	Soaps, cleaners, and toilet goods -----	-	294	82	11.5	136.5	8.0	15.4	78.5	923.8	518.3	1 436.2	27.0	11.4	440.1
2841	Soap and other detergents --	-	55	15	2.1	32.9	1.4	3.0	20.8	114.5	175.7	289.8	(D)	2.2	98.7
2842	Polishes and sanitation goods -----	E1	96	27	2.0	22.3	1.2	2.1	10.1	100.6	81.8	182.0	(D)	2.3	66.9
2844	Toilet preparations -----	-	135	38	7.3	79.1	5.3	10.2	47.1	704.4	255.3	954.9	12.9	6.8	269.1
2851	Paints and allied products -----	E1	133	39	3.3	46.5	1.9	4.0	21.7	129.4	177.2	304.4	(D)	4.4	101.1

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
28	Chemicals and allied products—Con.														
286	Industrial organic chemicals ---	-	59	30	7.1	117.9	4.3	8.7	62.0	369.6	329.3	692.9	86.1	8.8	209.2
2865	Cyclic crudes and intermediates -----	-	12	6	2.8	44.6	1.9	3.5	28.4	142.5	100.0	242.3	(D)	2.6	49.1
2869	Industrial organic chemicals, n.e.c. -----	-	39	23	4.2	72.4	2.4	5.1	33.0	225.1	226.2	445.6	(D)	6.1	158.6
287	Agricultural chemicals -----	-	46	14	0.9	11.2	0.6	1.2	6.3	36.4	139.4	178.8	(D)	0.7	13.5
2875	Fertilizers, mixing only -----	-	20	8	0.3	3.6	0.3	0.5	1.7	9.1	52.9	62.6	0.7	0.3	3.7
2879	Agricultural chemicals, n.e.c. ---	-	20	3	0.4	5.2	0.3	0.5	2.9	17.6	55.5	75.7	6.5	0.2	2.3
289	Miscellaneous chemical products -----	-	197	46	3.9	54.5	2.4	4.8	27.8	162.0	218.4	378.3	10.8	4.3	109.2
2891	Adhesives and sealants -----	-	49	15	1.2	16.6	0.7	1.4	7.3	54.8	60.6	114.4	2.4	1.2	27.5
2892	Explosives -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2893	Printing ink -----	-	28	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2899	Chemical preparations, n.e.c. -----	-	119	23	1.8	26.0	1.2	2.3	14.0	82.4	134.4	216.0	7.5	2.2	63.7
29	Petroleum and coal products -----	-	169	29	2.4	40.7	1.7	3.5	26.7	128.3	629.9	755.8	18.3	FF	(D)
2911	Petroleum refining -----	-	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
295	Paving and roofing materials ---	E1	130	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2951	Paving mixtures and blocks ---	E1	121	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
299	Miscellaneous petroleum and coal products -----	E1	32	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2992	Lubricating oils and greases ---	E1	32	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
30	Rubber and miscellaneous plastics products -----	E1	909	358	34.5	371.7	27.2	52.2	244.5	808.8	811.3	1 624.2	58.8	37.1	572.0
3011	Tires and inner tubes -----	-	5	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3021	Rubber and plastics footwear ---	E1	6	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3041	Rubber and plastics hose and belting -----	-	7	5	0.7	9.5	0.5	1.0	5.4	20.8	21.7	41.8	(D)	EE	(D)
3069	Fabricated rubber products, n.e.c. -----	E2	79	24	2.5	27.3	2.0	3.9	19.2	46.5	54.7	101.4	3.9	3.6	56.0
3079	Miscellaneous plastics products -----	E1	812	327	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	29.5	454.6
31	Leather and leather products -----	E1	657	295	29.3	223.1	25.4	45.7	163.9	429.2	457.6	882.8	(D)	35.8	359.8
3111	Leather tanning and finishing ---	E1	85	28	2.7	28.2	2.5	5.0	23.5	51.9	76.2	127.6	(D)	2.4	27.8
3131	Boot and shoe cut stock and findings -----	E2	19	4	0.2	1.8	0.2	0.3	1.4	3.2	4.5	7.6	0.1	0.6	6.1
314	Footwear, except rubber -----	-	87	53	8.3	57.9	7.3	12.8	46.2	104.0	92.2	197.2	(D)	12.4	121.7
3142	House slippers -----	-	21	14	2.2	14.3	2.0	3.5	11.0	28.6	25.0	53.1	(D)	FF	(D)
3143	Men's footwear, except athletic -----	-	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3144	Women's footwear, except athletic -----	-	39	23	3.4	23.8	2.9	5.1	18.1	40.6	28.6	70.3	1.3	5.3	54.7
3149	Footwear, except rubber, n.e.c. -----	E5	18	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	20.3
3151	Leather gloves and mittens ---	-	30	16	1.4	8.5	1.1	1.8	5.4	15.3	36.4	50.8	0.3	EE	(D)
3161	Luggage -----	E1	75	39	3.9	31.0	3.4	6.1	21.5	60.8	55.3	114.9	(D)	3.4	35.5
317	Handbags and other personal leather goods -----	E1	274	139	11.6	86.3	10.0	18.0	60.0	177.5	174.4	350.3	(D)	14.6	141.2
3171	Women's handbags and purses -----	E1	195	100	8.4	62.4	7.4	13.6	45.3	130.7	125.1	254.7	(D)	10.8	98.8
3172	Personal leather goods -----	E2	79	39	3.1	23.9	2.6	4.4	14.6	46.9	49.4	95.6	(D)	3.8	42.4
3199	Leather goods, n.e.c. -----	E3	87	16	1.2	9.4	1.0	1.6	5.9	16.5	18.5	34.3	(D)	EE	(D)
32	Stone, clay, and glass products -----	-	912	211	31.2	418.5	24.0	47.7	292.7	971.1	781.1	1 751.0	97.2	36.0	738.4
322	Glass and glassware, pressed or blown -----	-	36	15	4.7	66.4	4.0	8.1	52.7	215.8	88.6	306.9	30.3	4.5	119.9
3221	Glass containers -----	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3229	Pressed and blown glass, n.e.c. -----	-	30	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3231	Products of purchased glass ---	E1	127	34	3.8	44.2	3.1	6.0	31.3	103.9	68.1	170.2	10.8	3.8	63.9
3241	Cement, hydraulic -----	-	8	6	1.1	20.4	0.9	1.7	16.2	42.1	48.8	88.8	2.5	EE	(D)
325	Structural clay products -----	E1	15	8	0.7	7.9	0.6	1.1	6.0	15.1	8.6	23.0	0.7	0.7	12.0
3251	Brick and structural clay tile ---	E2	9	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3253	Ceramic wall and floor tile ---	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
32	Stone, clay, and glass products—Con.														
326	Pottery and related products----	-	48	11	3.1	36.6	2.2	4.5	23.1	71.2	30.5	99.5	7.3	3.1	45.9
3262	Vitreous china food utensils----	-	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3264	Porcelain electrical supplies----	-	7	6	1.5	19.3	0.9	1.9	10.5	33.6	20.6	52.4	(D)	1.6	29.2
3269	Pottery products, n.e.c.-----	E4	33	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.9
327	Concrete, gypsum, and plaster products-----	E1	447	75	6.5	93.9	4.8	9.7	61.3	182.0	220.7	402.0	21.1	10.2	214.8
3271	Concrete block and brick-----	E1	89	6	0.7	9.2	0.4	0.8	4.6	18.3	24.2	42.6	1.4	1.1	25.5
3272	Concrete products, n.e.c.-----	E1	175	31	2.2	28.3	1.7	3.4	18.8	55.7	44.4	98.5	7.5	3.1	58.6
3273	Ready-mixed concrete-----	E1	193	32	2.9	44.4	2.1	4.0	28.6	84.4	110.1	194.3	7.7	4.5	102.1
3275	Gypsum products-----	-	10	6	0.8	11.9	0.6	1.5	9.2	23.6	42.0	66.6	4.4	1.4	28.7
3281	Cut stone and stone products----	E2	64	9	0.7	7.3	0.5	1.0	5.0	14.0	9.2	23.1	0.5	CC	(D)
329	Miscellaneous nonmetallic mineral products-----	-	163	53	10.6	141.4	7.9	15.5	96.9	326.1	305.7	635.5	24.0	11.0	212.0
3291	Abrasive products-----	-	44	20	4.6	65.7	3.5	6.8	45.8	138.7	152.0	292.7	7.0	6.7	132.3
3292	Asbestos products-----	-	8	3	1.4	18.6	1.1	2.2	14.2	31.6	34.5	67.5	2.2	1.8	33.6
3293	Gaskets, packing, and sealing devices-----	-	30	12	1.8	19.6	1.3	2.4	12.4	44.6	28.6	73.6	1.8	0.8	11.8
3295	Minerals, ground or treated----	-	10	3	0.5	6.7	0.3	0.6	4.0	17.9	12.8	31.0	2.3	BB	(D)
3296	Mineral wool-----	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3297	Nonclay refractories-----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3299	Nonmetallic mineral products, n.e.c.-----	-	60	8	1.0	12.1	0.8	1.6	8.0	30.4	39.2	70.7	7.2	0.8	10.8
33	Primary metal industries-----	-	466	223	53.5	885.7	41.6	80.9	646.7	1 644.7	3 796.9	5 481.2	191.2	56.4	1 040.2
331	Blast furnace and basic steel products-----	-	69	36	21.7	408.5	16.8	31.3	304.5	540.0	1 204.9	1 763.9	110.2	21.2	403.9
3312	Blast furnaces and steel mills-----	-	35	17	19.4	376.9	14.9	27.8	281.3	466.8	1 064.0	1 554.1	(D)	FF	(D)
3313	Electrometallurgical products-----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3315	Steel wire and related products-----	-	21	9	0.9	10.4	0.7	1.3	8.0	19.9	40.0	58.9	2.8	0.4	6.9
3316	Cold finishing of steel shapes-----	-	6	4	0.7	10.5	0.6	1.0	7.3	28.6	50.4	79.9	(D)	CC	(D)
3317	Steel pipe and tubes-----	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
332	Iron and steel foundries-----	-	56	37	6.6	95.9	5.5	10.7	75.4	170.8	137.0	306.1	9.0	6.9	107.9
3321	Gray iron foundries-----	-	38	22	2.5	35.2	2.0	4.1	26.7	58.6	76.9	134.1	4.0	2.7	40.6
3322	Malleable iron foundries-----	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3324	Steel investment foundries-----	E2	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3325	Steel foundries, n.e.c.-----	-	8	7	3.3	50.8	2.8	5.3	41.3	93.3	50.3	143.3	3.6	FF	(D)
333	Primary nonferrous metals-----	-	18	5	2.5	44.5	1.9	3.7	32.0	216.0	227.5	440.7	4.3	EE	(D)
3331	Primary copper-----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3334	Primary aluminum-----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3339	Primary nonferrous metals, n.e.c.-----	-	15	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	14.8
3341	Secondary nonferrous metals----	-	41	12	1.7	26.9	1.2	2.5	16.0	86.3	334.3	410.3	6.2	1.6	42.4
335	Nonferrous rolling and drawing--	-	90	59	13.3	201.8	9.9	20.0	140.3	429.1	1 723.7	2 188.6	28.1	16.0	280.0
3351	Copper rolling and drawing----	-	12	6	2.6	39.8	2.0	4.1	31.2	77.8	240.6	318.6	3.6	3.2	65.9
3353	Aluminum sheet, plate, and foil-----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3354	Aluminum extruded products-----	-	12	7	0.9	11.0	0.7	1.5	7.7	27.6	59.4	86.1	0.9	CC	(D)
3355	Aluminum rolling and drawing, n.e.c.-----	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3356	Nonferrous rolling and drawing, n.e.c.-----	-	29	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	17.3
3357	Nonferrous wire drawing and insulating-----	-	35	28	6.2	88.9	4.5	8.9	59.6	159.4	382.8	546.6	9.5	8.7	156.7
336	Nonferrous foundries-----	-	119	54	5.9	82.5	4.8	9.5	60.7	141.4	140.2	282.4	31.0	7.0	102.4
3361	Aluminum foundries-----	-	50	20	3.0	48.8	2.4	4.9	37.8	78.9	93.8	171.3	(D)	2.8	45.8
3362	Brass, bronze, and copper foundries-----	-	29	15	0.8	9.1	0.7	1.3	6.4	15.5	11.2	26.9	0.5	0.8	9.0
3369	Nonferrous foundries, n.e.c.-----	-	40	19	2.1	24.6	1.7	3.3	16.5	47.0	35.3	84.1	(D)	3.4	47.6
339	Miscellaneous primary metal products-----	E2	73	20	1.8	25.6	1.4	3.3	17.9	60.9	29.2	89.3	2.4	EE	(D)
3398	Metal heat treating-----	-	46	10	1.2	17.5	1.0	2.3	12.9	43.4	11.8	55.0	1.4	EE	(D)
3399	Primary metal products, n.e.c.-----	E4	27	10	0.6	8.0	0.5	1.0	5.1	17.6	17.4	34.3	1.0	0.3	5.9
34	Fabricated metal products-----	-	2 542	780	83.0	1 083.4	64.9	129.6	752.2	2 257.0	1 845.5	4 032.0	143.0	92.9	1 613.9
341	Metal cans and shipping containers-----	-	27	12	1.7	30.7	1.5	3.1	25.5	75.5	117.1	189.9	10.7	2.8	62.6
3411	Metal cans-----	-	21	8	1.5	27.3	1.3	2.6	22.6	67.9	107.1	172.8	10.6	FF	(D)
3412	Metal barrels, drums, and pails-----	E3	6	4	0.3	3.4	0.2	0.5	2.9	7.6	9.9	17.1	0.1	BB	(D)
342	Cutlery, hand tools, and hardware-----	-	187	80	13.5	164.4	10.5	20.9	114.5	370.5	254.5	613.5	20.9	14.0	245.6
3421	Cutlery-----	-	19	13	2.6	21.2	2.0	3.9	15.3	47.7	31.4	75.8	4.1	1.8	22.6
3423	Hand and edge tools, n.e.c.-----	-	80	25	4.3	51.6	3.5	7.1	37.2	110.0	74.7	180.1	5.6	4.5	70.7
3425	Hand saws and saw blades-----	-	10	5	0.5	4.8	0.4	0.7	3.0	9.5	5.5	14.6	0.3	0.9	15.1
3429	Hardware, n.e.c.-----	-	98	37	6.1	86.8	4.6	9.2	59.0	203.2	142.9	343.0	10.9	6.7	137.1

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977										1972		
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			E ¹	Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)							Wages (million dollars)
34	Fabricated metal products—Con.														
343	Plumbing and heating, except electric	E1	68	25	2.5	29.2	1.9	3.6	18.5	65.5	73.0	136.0	3.9	3.7	68.1
3432	Plumbing fittings and brass goods	E1	19	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	13.9
3433	Heating equipment, except electric	-	47	17	1.7	21.7	1.3	2.4	13.7	50.8	44.9	93.1	(D)	2.6	50.6
344	Fabricated structural metal products	E1	820	227	21.4	287.0	15.3	29.8	179.4	588.6	495.0	1 045.7	22.8	26.0	445.6
3441	Fabricated structural metal	E1	178	45	4.0	56.6	2.9	5.7	34.7	115.8	98.7	209.6	4.3	5.5	112.2
3442	Metal doors, sash, and trim	E1	137	52	4.5	48.4	3.3	6.6	32.0	81.7	90.2	172.9	2.9	FF	(D)
3443	Fabricated plate work (boiler shops)	-	101	37	5.8	86.6	4.0	7.6	53.1	211.4	131.8	311.4	7.2	5.5	114.0
3444	Sheet metal work	E1	244	69	5.1	69.0	3.8	7.3	45.1	126.1	105.6	232.2	5.3	6.0	92.3
3446	Architectural metal work	E2	137	15	1.2	15.4	0.8	1.6	9.4	27.9	23.8	51.6	1.1	2.1	32.1
3448	Prefabricated metal buildings	-	9	3	0.3	4.0	0.3	0.5	2.7	12.3	23.4	33.4	(D)	(NA)	(NA)
3449	Miscellaneous metal work	-	14	6	0.4	6.9	0.2	0.6	2.5	13.4	21.5	34.5	(D)	0.6	11.7
345	Screw machine products, bolts, etc.	E1	167	60	5.0	63.0	4.0	8.4	43.5	117.4	99.1	214.8	9.6	5.5	88.2
3451	Screw machine products	E1	116	40	2.6	32.1	2.1	4.4	23.2	60.3	48.1	108.1	3.6	2.9	47.4
3452	Bolts, nuts, rivets, and washers	E1	51	20	2.5	30.9	1.9	4.0	20.3	57.2	51.0	106.7	6.0	2.7	50.8
346	Metal forgings and stampings	-	292	118	15.1	241.5	12.6	26.0	185.0	472.2	429.5	894.0	41.4	15.3	294.1
3462	Iron and steel forgings	E1	15	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3465	Automotive stampings	-	7	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3466	Crowns and closures	-	4	4	0.4	4.7	0.3	0.6	3.5	9.1	11.7	20.4	0.6	BB	(D)
3469	Metal stampings, n.e.c.	E1	265	98	8.4	99.1	6.6	13.1	66.7	206.1	178.3	381.6	12.8	8.7	140.7
347	Metal services, n.e.c.	E2	444	103	7.2	66.9	6.1	11.9	47.4	118.2	58.4	175.4	(D)	7.2	85.0
3471	Plating and polishing	E2	307	80	5.8	52.6	4.9	9.6	37.4	95.0	43.6	137.7	8.1	5.5	85.0
3479	Metal coating and allied services	E2	137	23	1.5	14.2	1.2	2.3	10.0	23.1	14.8	37.7	(D)	1.7	21.0
348	Ordinance and accessories, n.e.c.	-	21	8	3.6	49.8	3.0	6.1	39.2	124.3	55.3	181.2	(D)	4.3	82.2
3483	Ammunition, except for small arms, n.e.c.	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3484	Small arms	-	11	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
349	Miscellaneous fabricated metal products	E1	516	147	12.8	151.0	10.0	19.8	99.2	324.9	263.7	581.5	18.7	14.1	231.5
3494	Valves and pipe fittings	-	49	21	3.2	42.2	2.4	4.7	27.0	109.1	72.3	179.1	9.5	4.6	87.7
3495	Wire springs	-	16	9	0.6	6.6	0.5	1.0	4.8	14.8	8.7	23.5	0.6	0.7	12.5
3496	Miscellaneous fabricated wire products	E1	123	36	3.1	32.3	2.5	5.3	22.9	67.5	50.3	116.5	2.3	3.8	56.2
3497	Metal foil and leaf	E1	7	4	0.3	3.8	0.2	0.4	2.6	6.4	12.8	19.3	(D)	BB	(D)
3498	Fabricated pipe and fittings	-	30	14	1.2	15.7	0.8	1.7	9.5	27.2	36.2	61.6	1.4	CC	(D)
3499	Fabricated metal products, n.e.c.	E2	286	62	4.4	49.9	3.5	6.7	31.9	98.9	82.1	179.5	4.5	3.6	49.5
35	Machinery, except electrical	-	2 871	636	133.3	2 057.1	80.1	173.0	1 163.5	4 784.7	3 629.9	8 273.0	286.8	135.1	2 983.3
351	Engines and turbines	-	14	10	13.6	238.8	8.5	17.8	123.1	614.5	464.3	1 035.4	23.0	FF	(D)
3511	Turbines and turbine generator sets	-	7	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3519	Internal combustion engines, n.e.c.	-	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
352	Farm and garden machinery	-	39	11	2.2	28.5	1.3	2.2	12.8	101.2	63.6	153.6	5.3	1.5	40.4
3523	Farm machinery and equipment	-	34	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3524	Lawn and garden equipment	-	5	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
353	Construction and related machinery	-	122	40	6.9	94.1	4.4	8.1	52.0	163.1	170.9	335.6	9.6	8.7	151.6
3531	Construction machinery	-	43	14	2.1	25.5	1.6	3.0	17.1	35.7	78.4	122.6	1.7	1.8	29.8
3532	Mining machinery	E1	8	2	0.2	2.1	0.1	0.2	1.4	4.1	3.1	7.2	0.5	(NA)	(NA)
3534	Elevators and moving stairways	E1	11	8	1.3	19.9	0.8	1.5	10.8	26.2	14.0	39.9	(D)	FF	(D)
3535	Conveyors and conveying equipment	-	22	7	1.0	14.1	0.5	0.9	5.8	27.7	21.4	48.1	0.8	1.4	28.7
3536	Hoists, cranes, and monorails	-	10	3	0.7	8.7	0.4	0.9	4.8	16.5	10.1	26.3	(D)	0.8	12.0
3537	Industrial trucks and tractors	-	23	7	1.6	23.2	1.0	1.4	11.7	51.4	42.8	88.6	(D)	EE	(D)
354	Metalworking machinery	-	673	154	18.6	275.2	13.4	26.6	176.3	533.2	236.4	749.9	25.3	17.2	318.9
3541	Machine tools, metal cutting types	-	52	16	4.7	74.2	3.4	6.6	47.8	147.6	57.5	203.8	6.1	4.7	84.3
3542	Machine tools, metal forming types	-	29	11	2.2	35.8	1.4	2.9	21.8	64.5	31.9	95.7	2.9	2.3	36.8
3544	Special dies, tools, jigs, and fixtures	E2	471	90	5.7	78.5	4.7	9.4	57.6	128.0	46.2	173.1	9.8	5.1	89.3
3545	Machine tool accessories	E1	80	18	1.6	22.2	1.2	2.3	13.4	51.6	23.1	73.5	2.3	EE	(D)
3546	Power driven hand tools	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3547	Rolling mill machinery	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3549	Metalworking machinery, n.e.c.	-	31	12	1.8	28.7	1.2	2.5	17.0	56.9	40.5	88.7	2.5	1.1	20.9

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
35	Machinery, except electrical—Con.														
355	Special industry machinery ----	-	349	103	12.9	189.9	7.7	14.6	93.3	403.0	248.5	636.2	16.6	11.1	190.9
3551	Food products machinery ----	E2	57	21	1.5	20.2	0.9	1.8	10.0	42.3	27.2	68.5	1.6	EE	(D)
3552	Textile machinery ----	-	46	14	1.3	16.8	0.7	1.3	8.1	36.3	22.7	58.9	2.7	2.0	31.1
3553	Woodworking machinery ----	E2	9	5	0.2	2.8	0.1	0.3	1.5	6.3	3.3	9.6	0.2	AA	(D)
3554	Paper industries machinery ----	-	29	12	2.1	30.4	1.2	2.2	13.7	54.4	41.2	92.4	2.3	1.5	23.6
3555	Printing trades machinery ----	-	99	22	2.2	31.5	1.6	3.0	18.3	69.9	49.3	118.5	3.4	2.1	40.8
3559	Special industry machinery, n.e.c. ----	-	109	29	5.6	88.3	3.2	6.0	41.7	193.7	104.8	288.3	6.4	FF	(D)
356	General industrial machinery ----	-	309	110	23.4	326.9	14.4	28.0	187.5	778.6	507.1	1 280.7	31.9	21.9	395.1
3561	Pumps and pumping equipment ----	-	27	15	2.7	37.6	1.5	3.0	20.6	100.8	96.2	199.6	(D)	2.6	48.9
3562	Ball and roller bearings ----	-	13	7	3.2	43.3	2.5	5.1	32.5	83.5	48.0	131.7	2.1	FF	(D)
3563	Air and gas compressors ----	-	14	10	6.9	105.3	4.1	7.7	59.2	288.4	168.3	450.1	7.9	FF	(D)
3564	Blowers and fans ----	-	25	10	3.2	41.8	2.0	3.9	22.6	91.3	59.7	150.0	4.4	3.2	59.8
3565	Industrial patterns ----	E3	48	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	5.0
3566	Speed changers, drives, and gears ----	E1	31	11	1.0	14.6	0.8	1.6	9.4	28.6	14.0	42.3	1.8	1.0	15.3
3567	Industrial furnaces and ovens ----	E1	18	7	0.4	6.0	0.3	0.5	3.3	12.1	6.5	18.7	0.4	0.5	8.2
3568	Power transmission equipment, n.e.c. ----	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3569	General industrial machinery, n.e.c. ----	-	128	44	5.1	69.4	2.8	5.4	33.9	157.7	108.6	266.4	6.4	3.1	63.6
357	Office and computing machines ----	-	102	48	23.3	373.5	12.7	24.5	129.8	757.5	928.7	1 661.5	75.2	FF	(D)
3573	Electronic computing equipment ----	-	65	34	16.7	302.8	7.5	14.5	82.9	582.0	851.6	1 407.5	68.3	19.3	371.1
3576	Scales and balances, except laboratory ----	-	7	4	0.8	8.1	0.6	0.9	3.3	13.7	13.2	27.8	0.4	CC	(D)
3579	Office machines, n.e.c. and typewriters ----	-	25	10	5.9	62.5	4.6	9.1	43.5	161.3	63.6	225.3	6.5	FF	(D)
358	Refrigeration and service machinery ----	-	155	41	17.1	287.2	13.5	26.6	213.9	989.0	784.1	1 760.8	34.9	19.6	694.7
3581	Automatic merchandising machines ----	-	12	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3582	Commercial laundry equipment ----	-	8	3	0.2	3.5	0.1	0.3	1.6	6.4	9.9	16.5	(D)	BB	(D)
3585	Refrigeration and heating equipment ----	-	69	29	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	17.1	655.0
3589	Service industry machinery, n.e.c. ----	E3	64	6	0.7	8.3	0.5	0.9	4.9	20.8	17.4	38.0	(D)	1.4	25.6
359	Miscellaneous machinery, except electrical ----	E1	1 108	119	15.4	242.8	12.2	24.6	174.6	444.7	226.2	659.5	64.9	14.3	277.9
3592	Carburetors, pistons, rings, and valves ----	-	7	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3599	Machinery, except electrical, n.e.c. ----	E2	1 101	117	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
36	Electric and electronic equipment -	-	1 527	581	148.6	2 150.2	87.9	169.5	974.6	4 429.0	3 192.9	7 482.0	258.2	161.0	2 917.6
361	Electric distributing equipment -	E1	55	27	3.3	37.4	2.3	4.6	22.4	71.3	64.0	133.1	2.6	2.6	41.8
3612	Transformers ----	-	14	9	1.7	18.0	1.1	2.3	10.0	30.6	30.3	61.4	1.1	CC	(D)
3613	Switchgear and switchboard apparatus ----	E1	41	18	1.6	19.4	1.2	2.3	12.4	40.7	33.8	71.7	1.5	EE	(D)
362	Electrical industrial apparatus --	-	95	47	21.5	332.0	15.4	30.0	213.1	750.4	442.2	1 167.0	35.4	21.6	445.6
3621	Motors and generators ----	-	30	17	11.8	189.9	9.3	17.9	137.7	426.7	251.0	669.4	17.6	12.1	251.4
3622	Industrial controls ----	-	38	15	3.3	48.2	1.9	3.6	21.6	92.1	61.9	149.8	3.7	3.4	68.8
3623	Welding apparatus, electric --	-	8	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3624	Carbon and graphite products ----	-	9	7	2.7	42.0	2.0	4.2	30.2	125.7	59.6	174.0	8.0	EE	(D)
3629	Electrical industrial apparatus, n.e.c. ----	-	10	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	52.2
363	Household appliances ----	-	83	27	3.4	34.5	2.9	5.4	25.3	87.6	73.5	161.0	4.0	FF	(D)
3631	Household cooking equipment ----	-	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3634	Electric housewares and fans ----	-	29	10	2.3	21.4	2.1	3.8	16.7	60.7	47.8	108.5	2.7	3.7	64.6
3636	Sewing machines ----	E3	37	12	0.6	7.9	0.4	0.9	5.0	15.6	11.1	26.3	0.5	CC	(D)
364	Electric lighting and wiring equipment ----	-	302	114	18.7	208.1	13.9	27.0	135.6	483.6	375.2	837.6	17.6	20.3	326.4
3641	Electric lamps ----	-	17	2	0.6	6.5	0.6	1.0	5.0	24.2	11.1	35.0	(D)	1.0	14.5
3643	Current-carrying wiring devices ----	-	47	17	6.9	74.2	5.4	10.9	48.8	166.4	142.2	292.1	7.6	6.8	97.5
3644	Noncurrent-carrying wiring devices ----	-	16	11	4.2	54.9	2.7	5.2	37.7	125.9	59.0	181.2	4.7	4.6	81.3
3645	Residential lighting fixtures --	E1	157	51	3.8	37.0	2.9	5.5	22.2	83.7	86.2	170.1	2.2	4.2	66.1
3646	Commercial lighting fixtures --	E2	31	18	1.5	16.8	1.2	2.1	10.1	38.6	34.8	72.8	1.0	EE	(D)
3647	Vehicular lighting equipment --	-	7	4	1.0	11.5	0.8	1.4	7.3	26.1	20.3	45.7	(D)	EE	(D)
3648	Lighting equipment, n.e.c. ----	E1	27	11	0.6	7.3	0.5	0.8	4.5	18.7	21.7	40.6	(D)	0.6	12.8
365	Radio and TV receiving equipment ----	E1	215	52	6.4	63.1	4.8	9.0	36.7	217.6	169.0	368.5	4.8	FF	(D)
3651	Radio and TV receiving sets -	-	70	26	3.6	32.3	2.7	4.9	19.8	92.4	106.6	182.6	2.5	FF	(D)
3652	Phonograph records and prerecorded tape ----	E1	145	26	2.9	30.8	2.1	4.1	16.9	125.2	62.4	185.9	2.3	FF	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
36	Electric and electronic equipment—Con.														
366	Communication equipment ----	-	228	115	41.4	682.3	18.1	34.5	229.5	1 248.9	551.2	1 792.3	44.0	46.5 *	836.9
3661	Telephone and telegraph apparatus ----	-	26	15	3.8	55.9	2.0	3.1	18.3	72.1	55.1	143.5	4.3	FF	(D)
3662	Radio and TV communication equipment --	-	202	100	37.6	626.4	16.1	31.3	211.2	1 176.8	496.0	1 648.8	39.8	FF	(D)
367	Electronic components and accessories ----	-	410	144	44.6	670.9	24.4	47.6	253.2	1 255.3	1 328.9	2 510.3	131.7	47.6	919.3
3671	Electron tubes, all types ----	-	12	6	3.0	42.7	2.1	4.2	24.8	80.0	67.7	149.8	3.0	(NA)	(NA)
3674	Semiconductors and related devices ----	-	59	22	12.7	231.3	3.8	7.7	41.5	422.4	333.7	721.4	(D)	13.1	269.4
3675	Electronic capacitors ----	-	12	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	15.8
3676	Electronic resistors ----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3677	Electronic coils and transformers ----	-	29	23	2.6	20.8	2.0	3.6	12.2	33.1	15.1	47.2	(D)	4.4	31.8
3678	Electronic connectors ----	-	14	10	5.1	56.6	3.6	6.9	33.5	101.1	40.3	136.8	5.8	4.8	64.3
3679	Electronic components, n.e.c. ----	-	283	73	19.2	300.2	11.4	22.2	129.4	586.6	861.2	1 411.2	55.1	19.0	413.6
369	Miscellaneous electrical equipment and supplies ----	-	139	55	9.3	122.0	6.0	11.3	58.8	314.2	188.9	512.3	(D)	FF	(D)
3691	Storage batteries ----	-	8	4	0.4	3.9	0.3	0.6	3.0	8.0	12.8	21.8	0.5	0.3	3.7
3692	Primary batteries, dry and wet ----	E1	7	3	0.6	6.0	0.4	0.7	3.4	15.6	5.2	20.6	3.0	AA	(D)
3693	X-ray, electromedical, and electrotherapeutic apparatus -	-	26	17	3.0	55.2	1.3	2.5	17.7	161.0	67.5	226.8	5.0	EE	(D)
3694	Engine electrical equipment -	-	23	6	3.4	39.4	2.5	4.8	23.9	86.6	64.8	163.2	(D)	4.5	84.9
3699	Electrical equipment and supplies, n.e.c. ----	E1	75	25	1.9	17.4	1.5	2.7	10.9	43.0	38.8	79.9	1.3	EE	(D)
37	Transportation equipment ----	-	430	134	73.5	1 341.6	51.8	108.0	876.3	2 452.8	3 097.7	5 540.0	185.2	69.8	1 366.0
371	Motor vehicles and equipment -	-	186	59	32.9	622.3	27.6	58.0	504.0	1 099.0	2 314.4	3 409.3	(D)	33.1	766.0
3711	Motor vehicles and car bodies ----	-	17	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3713	Truck and bus bodies ----	E3	39	18	1.2	12.4	0.9	1.7	7.9	19.7	29.8	49.4	0.5	1.7	27.9
3714	Motor vehicle parts and accessories ----	-	125	32	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3715	Truck trailers ----	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
372	Aircraft and parts ----	-	72	32	30.9	578.7	17.0	36.0	283.7	1 106.2	617.6	1 725.4	(D)	27.2	468.0
3721	Aircraft ----	-	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3724	Aircraft engines and engine parts ----	-	13	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	17.1
3728	Aircraft equipment, n.e.c. ----	E1	55	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
373	Ship and boat building and repairing ----	E1	131	33	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3731	Ship building and repairing --	E1	46	23	4.8	64.6	4.0	7.9	51.6	112.0	75.3	187.3	2.9	4.3	59.6
3732	Boat building and repairing --	E1	85	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3743	Railroad equipment ----	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
376	Guided missiles, space vehicles, parts ----	-	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	4.0
3764	Space propulsion units and parts ----	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3769	Space vehicle equipment, n.e.c. ----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
379	Miscellaneous transportation equipment ----	-	20	2	0.2	2.6	0.2	0.4	1.8	4.3	8.9	13.4	(D)	BB	(D)
3792	Travel trailers and campers --	-	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
38	Instruments and related products ----	-	854	312	100.6	1 627.6	56.0	109.6	752.8	5 424.7	2 119.8	7 525.4	222.6	96.4	3 535.8
3811	Engineering and scientific instruments ----	E1	68	25	1.9	24.2	1.2	2.3	13.3	56.4	33.1	88.4	1.1	4.0	68.7
382	Measuring and controlling devices ----	-	175	86	10.8	142.1	5.8	11.7	58.1	298.2	132.1	420.8	11.5	8.7	157.3
3822	Environmental controls ----	-	9	5	0.5	4.7	0.4	0.8	2.9	8.3	4.9	13.0	0.3	CC	(D)
3823	Process control instruments -	-	32	20	4.2	59.6	1.8	3.5	19.1	128.4	50.4	174.9	4.0	2.7	57.8
3824	Fluid meters and counting devices ----	E4	8	3	0.2	1.7	0.1	0.3	1.1	2.7	1.4	4.1	(Z)	BB	(D)
3825	Instruments to measure electricity ----	E1	61	27	3.5	48.3	1.9	4.0	20.9	103.0	49.0	148.3	4.0	3.4	65.0
3829	Measuring and controlling devices, n.e.c. ----	-	65	31	2.5	27.8	1.6	3.0	14.1	55.8	26.4	80.5	3.1	1.5	28.1
3832	Optical instruments and lenses ----	-	82	22	4.3	62.6	2.5	5.0	29.6	129.4	53.3	178.1	5.5	FF	(D)
384	Medical instruments and supplies ----	-	242	66	10.3	120.1	7.0	14.0	66.8	273.4	201.9	481.4	10.6	10.7	203.6
3841	Surgical and medical instruments ----	-	68	26	4.7	49.7	3.6	7.2	33.0	127.2	62.9	191.7	5.5	4.8	94.8
3842	Surgical appliances and supplies ----	E1	101	24	3.5	40.2	2.3	4.4	20.1	79.9	47.4	131.5	3.1	FF	(D)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital ex- penditures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
38	Instruments and related products— Con.														
384	Medical instruments and supplies—Con.														
3843	Dental equipment and supplies -----	-	73	16	2.1	30.2	1.2	2.4	13.7	66.3	91.5	158.2	2.1	EE	(D)
3851	Ophthalmic goods -----	-	84	34	7.7	90.8	4.9	10.1	48.2	200.9	74.8	268.5	8.8	8.4	113.8
3861	Photographic equipment and supplies -----	-	132	49	60.8	1,129.6	31.2	59.3	504.2	4 356.2	1 472.3	5 832.6	(D)	FF	(D)
3873	Watches, clocks, and watchcases -----	-	71	30	4.8	58.2	3.4	7.2	32.5	110.3	152.4	255.6	(D)	5.7	96.2
39	Miscellaneous manufacturing industries -----	E1	3 170	721	70.0	709.5	53.9	99.0	435.3	1 573.4	1 844.8	3 380.5	53.0	79.1	1 183.2
391	Jewelry, silverware, and plated ware -----	E1	1 050	205	17.6	209.1	12.7	23.1	118.0	491.8	889.6	1 358.6	11.0	17.2	309.3
3911	Jewelry, precious metal -----	E1	759	171	12.9	153.5	8.9	16.1	80.9	346.0	551.0	893.2	7.4	11.6	216.7
3914	Silverware and plated ware -----	-	41	11	2.7	31.8	2.3	4.4	25.1	64.8	57.9	119.6	(D)	3.6	54.3
3915	Jewelers' materials and lapidary work -----	E1	250	23	2.0	23.9	1.5	2.6	12.0	81.0	280.7	345.8	(D)	2.0	38.2
3931	Musical instruments -----	E1	40	14	1.9	17.0	1.7	3.1	12.4	33.2	20.9	54.4	1.2	1.6	16.8
394	Toys and sporting goods -----	-	315	112	19.6	175.5	15.5	28.2	108.6	423.2	395.3	807.4	(D)	21.3	328.0
3942	Dolls -----	-	104	38	3.9	25.9	3.5	5.4	18.0	62.3	58.0	117.9	1.4	5.4	49.5
3944	Games, toys, and children's vehicles -----	-	112	43	12.6	123.2	9.4	17.9	71.5	299.1	251.9	542.7	15.0	10.9	190.6
3949	Sporting and athletic goods, n.e.c. -----	E1	99	31	3.1	26.3	2.6	4.9	19.1	61.8	85.4	146.7	(D)	5.0	87.9
395	Pens, pencils, office and art supplies -----	E1	130	37	3.4	35.6	2.4	4.7	20.6	74.1	81.1	152.3	(D)	4.0	63.6
3951	Pens and mechanical pencils -----	E3	31	12	0.9	7.3	0.7	1.3	5.2	17.7	14.0	31.4	0.5	CC	(D)
3952	Lead pencils and art goods -----	-	24	8	0.9	9.7	0.6	1.2	5.7	20.4	25.1	44.2	0.5	EE	(D)
3953	Marking devices -----	E1	60	7	0.7	7.6	0.5	0.9	3.8	12.9	5.9	18.5	0.2	0.8	11.1
3955	Carbon paper and inked ribbons -----	-	15	10	0.9	11.0	0.6	1.2	5.9	23.2	36.2	58.2	(D)	EE	(D)
396	Costume jewelry and notions -----	E1	437	123	9.3	80.4	7.5	13.6	51.6	162.2	142.7	304.9	4.8	11.8	150.6
3961	Costume jewelry -----	E1	207	52	3.6	30.7	2.9	5.2	18.9	66.2	50.7	115.2	1.9	4.9	61.9
3962	Artificial flowers -----	-	45	15	1.1	9.0	0.9	1.7	6.0	21.1	24.2	45.1	0.5	1.1	11.1
3963	Buttons -----	E1	89	22	1.6	16.6	1.3	2.3	10.0	23.2	20.2	45.4	0.5	2.3	28.8
3964	Needles, pins, and fasteners -----	E2	96	34	2.9	24.1	2.4	4.5	16.7	51.7	47.6	99.2	1.9	3.6	48.8
399	Miscellaneous manufactures -----	E1	1 198	230	18.2	191.9	14.2	26.2	124.1	388.9	315.1	702.8	14.3	23.2	314.9
3991	Brooms and brushes -----	E1	44	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3993	Signs and advertising displays -----	E2	395	85	6.1	68.4	4.7	8.9	42.8	123.7	85.1	208.7	5.0	6.9	104.7
3995	Burial caskets -----	-	25	6	0.5	5.6	0.4	0.7	3.4	9.8	12.0	21.7	0.5	CC	(D)
3996	Hard surface floor coverings -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3999	Manufacturing industries, n.e.c. -----	E2	732	120	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12.8	165.9
-	Administrative and auxiliary -----	-	1 020	581	126.1	2 787.3	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			E1	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	New York-Newark-Jersey City, N.Y.-N.J.-Conn., SCSA	-	41 325	13 366	1 502.0	20 379.2	919.2	1 747.6	9 319.5	40 638.1	44 236.4	84 486.0	1 949.6	1 694.5	29 668.0
20	Food and kindred products	-	1 462	504	64.5	916.6	44.2	88.4	555.6	2 916.9	5 304.8	8 229.1	(D)	86.7	2 427.6
275	Commercial printing	E2	3 387	475	40.6	575.5	30.8	57.2	391.7	1 073.9	757.7	1 828.8	(D)	(NA)	(NA)
28	Chemicals and allied products	-	1 494	597	102.9	1 622.1	59.9	119.2	770.7	7 056.1	5 326.2	12 313.1	468.2	(NA)	(NA)
30	Rubber and miscellaneous plastics products	-	1 285	545	47.4	516.6	37.2	73.8	337.4	1 163.5	1 238.9	2 381.6	90.5	48.0	763.8
347	Metal services, n.e.c.	E1	543	129	8.5	84.4	7.0	13.7	57.3	155.8	114.0	266.8	(D)	(NA)	(NA)
	Albany-Schenectady-Troy SMSA	-	766	274	61.3	909.2	37.0	74.0	454.3	1 859.7	1 806.0	3 612.7	151.2	55.9	1 322.0
20	Food and kindred products	-	89	39	5.6	69.7	3.7	7.9	41.3	147.8	325.5	471.9	13.8	5.7	164.0
201	Meat products	E1	16	7	1.3	18.7	1.0	1.9	12.0	34.8	104.9	137.8	0.7	1.3	28.0
202	Dairy products	-	16	9	0.5	5.7	0.2	0.5	2.1	12.6	43.8	56.2	1.2	0.6	8.3
2026	Fluid milk	E1	10	5	0.3	3.6	0.1	0.3	1.4	6.6	30.5	37.1	(D)	0.5	6.8
205	Bakery products	-	25	8	1.2	15.1	0.6	1.6	7.5	24.2	33.0	57.2	(D)	1.2	24.9
22	Textile mill products	-	30	17	2.4	26.9	1.7	3.3	15.1	50.6	50.7	100.7	2.8	3.9	56.6
225	Knitting mills	-	15	10	1.1	8.7	0.9	1.7	6.4	14.2	27.7	42.0	(D)	2.1	30.3
229	Miscellaneous textile goods	-	9	5	0.9	12.2	0.6	1.1	6.2	29.8	20.0	49.1	(D)	(NA)	(NA)
23	Apparel and other textile products	-	52	28	3.3	23.4	2.8	4.8	18.3	43.2	42.4	85.6	0.6	(NA)	(NA)
233	Women's and misses' outerwear	E3	18	12	1.0	6.7	0.9	1.2	5.4	9.2	4.5	13.6	0.2	(NA)	(NA)
2335	Women's and misses' dresses	E4	12	7	0.4	2.6	0.4	0.6	2.1	4.0	2.0	5.9	0.1	(NA)	(NA)
238	Miscellaneous apparel and accessories	-	3	3	0.3	2.1	0.3	0.5	1.6	5.8	1.2	7.0	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products	-	14	4	0.8	6.4	0.6	1.2	4.1	13.1	21.8	34.4	0.3	0.7	7.7
24	Lumber and wood products	E1	38	8	0.6	5.4	0.5	0.9	4.1	8.9	13.4	22.4	(D)	(NA)	(NA)
26	Paper and allied products	-	32	22	3.3	48.9	2.7	5.6	37.7	112.6	149.7	261.2	7.2	3.3	62.6
2621	Paper mills, except building paper	-	7	6	1.6	26.5	1.3	2.8	21.0	58.4	73.7	131.2	(D)	1.8	37.7
264	Miscellaneous converted paper products	-	9	6	0.6	7.6	0.5	1.0	6.0	21.8	32.6	53.8	(D)	(NA)	(NA)
265	Paperboard containers and boxes	-	10	6	0.7	9.3	0.5	1.1	6.3	23.0	31.9	54.6	(D)	1.0	17.6
27	Printing and publishing	-	151	22	4.1	53.5	1.8	3.2	21.4	116.9	41.5	157.4	3.1	4.6	77.4
273	Books	-	10	5	1.2	19.4	0.3	0.6	3.8	50.1	16.4	65.9	1.1	0.9	22.8
28	Chemicals and allied products	-	31	12	4.9	83.2	2.8	6.2	38.8	303.6	249.5	547.2	54.8	4.1	161.7
2851	Paints and allied products	-	7	5	0.9	15.5	0.5	1.4	7.3	41.0	60.6	100.5	(D)	0.8	22.1
30	Rubber and miscellaneous plastics products	-	26	13	1.4	14.2	1.1	2.0	8.6	33.1	26.2	60.1	4.7	0.7	11.9
32	Stone, clay, and glass products	-	43	9	2.8	44.3	2.0	4.0	30.4	87.5	80.3	176.2	4.7	5.0	105.6
329	Miscellaneous nonmetallic mineral products	-	6	3	2.0	30.6	1.5	2.9	21.1	60.4	51.4	119.9	(D)	(NA)	(NA)
33	Primary metal industries	-	11	8	2.9	48.8	2.3	4.6	36.7	83.7	115.9	201.4	(D)	2.4	45.3
34	Fabricated metal products	-	58	16	1.3	15.2	1.0	1.9	9.9	30.2	35.1	65.5	0.8	1.9	28.9
344	Fabricated structural metal products	E1	26	7	0.6	7.2	0.4	0.8	4.6	11.9	18.7	30.9	0.4	0.6	9.8
3441	Fabricated structural metal	-	9	4	0.3	3.9	0.2	0.4	2.4	6.6	6.8	14.0	0.3	0.3	4.4
354	Metalworking machinery	E3	12	7	0.4	4.3	0.3	0.5	2.9	7.6	4.1	11.7	(D)	0.3	1.0
356	General industrial machinery	-	5	3	0.3	4.1	0.2	0.3	1.8	7.6	7.2	14.7	(D)	0.4	5.0

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Albany-Schenectady-Troy SMSA—Con.														
359	Miscellaneous machinery, except electrical -----	E1	27	4	0.3	3.4	0.2	0.4	2.2	6.0	2.9	8.8	(D)	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E1	27	4	0.3	3.4	0.2	0.4	2.2	6.0	2.9	8.8	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	18	8	5.1	73.8	3.7	7.1	48.3	151.2	96.0	244.2	(D)	(NA)	(NA)
38	Instruments and related products -----	-	21	8	0.8	8.1	0.4	0.9	4.2	19.6	9.0	28.2	0.5	0.7	10.2
382	Measuring and controlling devices -----	-	6	3	0.4	3.8	0.2	0.4	1.9	7.5	3.6	10.9	(D)	0.3	4.3
39	Miscellaneous manufacturing industries ---	-	31	11	1.6	13.2	1.3	2.5	8.8	32.6	41.0	72.0	(D)	2.1	26.7
394	Toys and sporting goods ---	-	11	9	1.4	11.2	1.2	2.2	7.5	28.5	37.9	64.8	(D)	1.0	19.7
	Binghamton, N.Y.-Pa., SMSA -	-	389	146	39.6	578.1	22.3	42.9	236.3	1 081.2	1 244.8	2 273.4	(D)	36.4	673.5
20	Food and kindred products --	-	34	13	1.1	12.2	0.8	1.5	7.4	41.4	89.8	131.8	2.2	1.0	17.5
23	Apparel and other textile products -----	-	23	14	1.0	7.1	0.9	1.6	5.9	11.3	13.2	23.8	0.3	1.3	9.0
233	Women's and misses' outerwear -----	-	11	9	0.6	3.4	0.5	0.9	3.0	4.6	2.0	6.5	(D)	0.8	4.2
239	Miscellaneous fabricated textile products -----	-	7	3	0.4	2.7	0.3	0.6	2.2	5.4	10.4	15.2	(D)	0.3	3.7
24	Lumber and wood products --	-	44	6	0.6	5.7	0.5	0.9	4.3	8.2	13.5	21.8	0.5	0.6	7.9
25	Furniture and fixtures -----	E2	10	6	1.2	11.3	1.0	1.8	8.6	19.8	20.6	40.0	0.3	1.1	15.7
30	Rubber and miscellaneous plastics products -----	-	20	12	1.1	8.6	0.9	1.7	6.9	28.8	28.2	56.4	2.1	(NA)	(NA)
33	Primary metal industries ----	-	5	4	0.4	5.1	0.4	0.8	3.9	8.6	5.1	13.5	0.6	0.5	5.7
34	Fabricated metal products ---	-	24	12	1.7	21.6	1.3	2.6	14.9	41.7	26.2	66.7	2.0	1.4	20.8
344	Fabricated structural metal products -----	E2	10	4	0.3	4.6	0.2	0.5	3.4	7.6	8.5	16.1	0.4	(NA)	(NA)
346	Metal forgings and stampings -----	E2	4	4	0.5	5.8	0.4	0.7	4.2	10.5	7.1	17.2	0.6	0.4	5.1
35	Machinery, except electrical -	-	51	16	3.8	35.9	3.1	6.0	25.4	59.9	44.8	103.8	3.8	2.0	27.3
357	Office and computing machines -----	E3	4	3	1.5	11.0	1.3	2.7	7.9	16.3	7.6	23.7	0.7	1.0	10.5
3573	Electronic computing equipment -----	E3	4	3	1.5	11.0	1.3	2.7	7.9	16.3	7.6	23.7	0.7	1.0	10.5
359	Miscellaneous machinery, except electrical -----	-	22	6	0.5	5.1	0.5	0.8	3.5	10.0	3.6	13.7	0.6	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	-	22	6	0.5	5.1	0.5	0.8	3.5	10.0	3.6	13.7	0.6	(NA)	(NA)
38	Instruments and related products -----	-	13	6	4.4	64.7	2.4	5.1	31.2	110.4	99.3	217.6	(D)	(NA)	(NA)
-	Administrative and auxiliary --	-	11	9	0.7	8.9	-	-	-	-	-	-	-	(NA)	(NA)
	Buffalo SMSA -----	-	1 711	628	140.3	2 296.1	102.1	203.4	1 555.5	4 735.5	5 629.7	10 345.8	451.7	151.7	3 146.3
20	Food and kindred products --	-	173	67	8.8	115.2	6.1	12.5	74.6	446.9	657.3	1 102.5	(D)	10.8	272.8
201	Meat products -----	E2	25	9	0.8	10.1	0.5	1.1	6.2	17.1	64.6	81.7	0.6	1.2	21.2
2013	Sausages and other prepared meats -----	E1	16	8	0.7	8.9	0.5	0.9	5.4	17.0	47.2	64.0	0.5	0.8	10.8
202	Dairy products -----	-	33	8	0.9	11.6	0.4	0.9	4.6	31.5	124.7	155.4	2.4	1.0	17.5
2026	Fluid milk -----	-	20	5	0.6	7.9	0.2	0.5	3.0	23.0	92.3	115.2	(D)	0.6	10.9
203	Preserved fruits and vegetables -----	-	16	10	1.8	20.5	1.2	2.5	11.2	121.7	93.7	215.3	1.8	1.9	49.7
2033	Canned fruits and vegetables -----	E2	8	3	0.3	3.0	0.2	0.4	1.8	9.2	15.0	24.0	0.8	0.3	3.1
204	Grain mill products -----	-	18	13	2.9	47.9	2.4	5.2	38.4	214.9	297.4	510.7	5.4	2.9	123.6
205	Bakery products -----	-	29	10	1.2	12.4	0.8	1.4	7.1	28.0	21.5	49.4	2.6	2.5	35.4
208	Beverages -----	E1	21	9	0.6	7.1	0.3	0.6	3.8	17.2	29.1	47.2	1.3	0.6	13.5
209	Miscellaneous foods and kindred products -----	E1	18	4	0.4	3.6	0.2	0.5	1.8	11.3	17.6	29.0	(D)	0.4	7.2

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
		E ¹													
	Buffalo SMSA—Con.														
22	Textile mill products-----	-	10	7	0.7	6.7	0.5	1.0	4.4	13.7	10.6	24.7	0.1	0.9	13.2
23	Apparel and other textile products-----	-	44	11	2.7	26.4	2.3	4.3	21.1	47.7	40.8	87.5	1.9	2.2	19.3
24	Lumber and wood products--	E2	53	11	0.7	6.9	0.6	1.0	4.5	11.4	14.3	25.7	0.6	1.0	12.0
244	Wood containers-----	E1	15	4	0.3	2.4	0.2	0.4	1.7	4.1	4.7	8.7	0.2	(NA)	(NA)
25	Furniture and fixtures-----	-	32	10	0.8	8.3	0.6	1.1	5.8	15.9	8.6	24.2	0.4	1.0	14.4
251	Household furniture-----	-	12	7	0.6	6.7	0.5	0.9	4.7	13.0	6.7	19.4	0.2	0.6	9.2
26	Paper and allied products---	-	54	39	4.5	55.8	3.4	6.9	38.1	89.3	141.3	232.0	8.6	5.1	86.7
265	Paperboard containers and boxes-----	-	30	21	2.3	29.3	1.8	3.3	19.7	50.2	59.4	109.6	3.1	2.2	38.8
2651	Folding paperboard boxes-----	-	12	6	0.9	12.5	0.7	1.3	8.3	21.5	19.4	40.8	2.1	0.7	16.7
2652	Setup paperboard boxes-----	-	6	5	0.3	2.9	0.3	0.5	2.2	3.4	2.9	6.6	(D)	0.4	5.0
2653	Corrugated and solid fiber boxes-----	-	8	8	0.8	11.2	0.6	1.1	7.0	19.3	29.1	48.3	0.8	0.8	13.9
2711	Newspapers-----	-	29	8	2.5	37.7	1.0	1.9	16.6	75.8	24.4	100.2	0.5	2.8	49.4
28	Chemicals and allied products-----	-	93	46	8.4	131.2	5.3	10.2	73.7	419.2	373.6	798.0	83.3	10.5	265.2
281	Industrial inorganic chemicals-----	-	18	11	1.8	33.0	1.3	2.6	20.9	141.5	95.6	237.0	19.1	1.6	69.2
2819	Industrial inorganic chemicals, n.e.c.-----	-	12	9	1.7	30.9	1.2	2.5	19.7	128.1	89.7	218.0	(D)	(NA)	(NA)
282	Plastics materials and synthetics-----	-	7	6	1.2	19.4	0.9	1.8	11.5	32.9	48.7	81.1	(D)	(NA)	(NA)
286	Industrial organic chemicals-----	-	9	8	2.6	40.9	1.6	3.0	24.9	134.9	105.4	242.6	(D)	5.6	107.2
2869	Industrial organic chemicals, n.e.c.-----	-	6	6	0.8	11.4	0.4	0.8	5.6	28.2	55.6	84.6	4.5	(NA)	(NA)
289	Miscellaneous chemical products-----	-	23	6	0.5	7.6	0.3	0.6	3.9	22.7	24.7	47.6	(D)	0.5	11.9
30	Rubber and miscellaneous plastics products-----	-	70	37	5.3	70.0	4.0	8.0	46.7	150.2	168.1	331.2	8.9	6.5	116.8
32	Stone, clay, and glass products-----	-	86	29	5.6	79.9	4.3	8.4	57.1	187.5	175.8	358.2	12.0	5.4	111.7
327	Concrete, gypsum, and plaster products-----	-	41	11	0.7	12.3	0.6	1.2	8.9	19.4	29.4	48.7	2.3	1.1	20.0
3273	Ready-mixed concrete---	-	16	6	0.4	6.1	0.3	0.5	4.5	9.3	16.9	26.2	1.0	0.4	7.3
329	Miscellaneous nonmetallic mineral products-----	-	24	12	3.8	55.8	2.9	5.5	39.5	139.9	131.3	267.1	7.9	3.6	83.1
3291	Abrasive products-----	-	10	6	2.7	40.2	2.2	4.2	29.9	100.4	102.5	198.8	(D)	2.9	72.4
33	Primary metal industries---	-	57	36	20.2	380.9	15.7	29.2	283.5	463.1	1 164.1	1 652.1	68.3	22.2	425.1
331	Blast furnace and basic steel products-----	-	16	14	16.0	305.2	12.3	22.5	225.2	341.9	950.5	1 313.1	63.6	15.1	288.5
332	Iron and steel foundries---	-	11	10	2.5	39.6	2.1	4.2	33.4	64.5	70.6	133.2	(D)	2.7	43.0
336	Nonferrous foundries-----	-	9	3	0.3	3.8	0.2	0.4	2.5	6.4	4.5	10.9	0.2	0.3	3.5
34	Fabricated metal products---	-	211	78	12.8	220.7	10.5	21.9	170.7	425.8	359.7	779.2	(D)	14.3	296.3
342	Cutlery, hand tools, and hardware-----	-	15	9	2.0	24.8	1.6	3.1	17.2	49.1	30.1	77.2	(D)	2.0	26.1
3425	Hand saws and saw blades-----	-	4	3	0.3	2.7	0.2	0.5	1.7	5.4	2.9	8.1	0.1	(NA)	(NA)
344	Fabricated structural metal products-----	-	74	28	2.5	35.8	1.8	3.5	23.1	70.8	60.5	131.5	3.1	2.0	34.2
3441	Fabricated structural metal-----	-	15	10	0.7	10.3	0.5	1.1	7.0	15.8	15.6	30.6	0.9	0.5	8.0
3443	Fabricated plate work (boiler shops)-----	-	24	12	1.1	17.2	0.7	1.5	10.6	41.3	27.9	70.1	1.6	1.1	19.4
3444	Sheet metal work-----	-	21	3	0.4	5.7	0.3	0.6	3.9	10.1	11.8	21.8	0.4	(NA)	(NA)
349	Miscellaneous fabricated metal products-----	-	44	14	1.4	16.3	1.1	2.2	11.9	34.4	24.9	58.8	(D)	2.5	52.6
3496	Miscellaneous fabricated wire products-----	-	12	4	0.5	6.5	0.5	0.9	5.4	17.3	8.9	25.5	0.2	0.8	18.6
3499	Fabricated metal products, n.e.c.-----	E1	23	6	0.4	5.4	0.4	0.7	3.4	8.6	7.7	16.5	0.3	0.3	4.3
35	Machinery, except electrical -	-	288	86	21.7	365.9	15.3	31.2	245.0	1 100.8	618.9	1 704.0	38.3	20.0	622.7

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Buffalo SMSA—Con.														
35	Machinery, except electrical —Con.														
353	Construction and related machinery -	E1	14	6	0.3	4.0	0.2	0.4	2.3	7.2	7.4	14.6	0.5	0.4	7.5
3544	Special dies, tools, jigs, and fixtures -	E1	45	15	0.9	12.5	0.7	1.4	8.5	23.0	7.5	30.0	0.7	(NA)	(NA)
355	Special industry machinery -	-	25	12	3.2	53.6	1.5	3.0	21.6	120.4	45.8	166.9	3.5	2.3	35.1
3551	Food products machinery -	-	9	4	0.5	6.9	0.3	0.6	3.6	15.3	9.0	24.2	0.4	0.7	12.9
356	General industrial machinery -	-	47	19	4.4	63.5	2.5	5.1	34.9	143.8	86.8	224.2	(D)	4.1	75.3
3566	Speed changers, drives, and gears -	-	5	3	0.5	7.8	0.4	0.8	5.1	16.9	8.0	24.7	0.7	(NA)	(NA)
359	Miscellaneous machinery, except electrical -	E1	109	18	1.4	18.9	1.1	2.2	13.0	30.2	12.6	43.8	2.4	1.6	21.6
36	Electric and electronic equipment -	-	69	26	9.2	133.4	6.5	12.3	81.5	329.7	178.2	494.1	16.7	10.6	204.1
367	Electronic components and accessories -	E2	12	4	0.6	5.0	0.4	0.7	2.6	10.6	5.2	14.8	0.3	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies -	-	8	5	0.7	8.3	0.5	0.9	4.6	28.9	13.4	42.1	(D)	0.5	5.7
37	Transportation equipment -	-	42	18	20.5	414.4	16.8	36.2	326.0	622.0	983.4	1 592.3	(D)	(NA)	(NA)
38	Instruments and related products -	-	43	17	2.8	38.3	1.8	3.7	21.8	87.8	58.1	142.7	3.5	2.5	45.5
384	Medical instruments and supplies -	-	23	10	1.3	16.2	0.8	1.5	8.6	32.7	34.9	67.3	(D)	1.0	17.6
-	Administrative and auxiliary -	-	53	30	3.4	73.4	-	-	-	-	-	-	-	(NA)	(NA)
	Elmira SMSA -	-	119	55	12.8	166.3	9.0	17.8	105.9	331.5	313.3	636.1	(D)	13.9	216.7
20	Food and kindred products -	-	19	9	2.5	29.9	2.0	4.0	23.0	65.8	139.2	203.3	(D)	2.3	33.1
27	Printing and publishing -	-	14	5	0.6	6.2	0.3	0.6	3.5	15.0	6.8	21.9	(D)	0.8	11.3
34	Fabricated metal products -	-	18	7	1.4	18.7	1.0	2.1	11.9	46.1	18.9	56.8	(D)	1.7	25.3
35	Machinery, except electrical -	-	17	7	1.4	20.1	1.1	2.1	13.7	49.1	20.2	67.7	(D)	1.0	24.2
37	Transportation equipment -	-	5	4	1.8	20.3	1.2	2.5	12.7	40.9	47.7	88.2	(D)	2.7	31.9
-	Administrative and auxiliary -	-	6	5	0.8	11.5	-	-	-	-	-	-	-	(NA)	(NA)
	Nassau-Suffolk SMSA -	-	4 827	1 268	155.9	2 099.0	101.6	196.8	1 099.6	4 370.3	3 380.6	7 729.7	196.7	150.2	2 523.2
20	Food and kindred products -	E1	151	32	4.0	51.9	2.8	5.3	28.6	138.0	167.8	305.8	3.3	4.2	87.6
202	Dairy products -	E2	22	4	0.3	4.0	0.2	0.4	2.4	7.9	28.1	36.0	0.5	0.3	7.2
206	Sugar and confectionery products -	E2	13	3	0.3	2.3	0.2	0.4	1.5	5.5	4.7	10.1	0.2	0.3	3.5
2065	Confectionery products -	E2	13	3	0.3	2.3	0.2	0.4	1.5	5.5	4.7	10.1	0.2	0.3	3.5
208	Beverages -	E2	15	7	0.5	8.2	0.3	0.5	3.4	28.9	35.5	64.3	1.0	0.7	24.2
209	Miscellaneous foods and kindred products -	E1	30	7	0.5	4.9	0.4	0.8	3.3	12.2	16.0	28.8	0.4	0.7	17.4
22	Textile mill products -	E2	119	44	3.8	39.3	3.3	6.3	28.0	69.1	104.7	172.7	4.6	4.4	83.4
2253	Knit outerwear mills -	E2	36	20	1.6	15.5	1.3	2.6	11.6	26.2	43.8	70.4	(D)	(NA)	(NA)
2257	Circular knit fabric mills -	E2	32	13	1.2	12.8	1.0	1.9	7.9	22.2	31.9	53.8	(D)	1.8	47.6
23	Apparel and other textile products -	E1	364	154	9.2	68.8	8.1	13.7	52.5	133.2	147.1	280.2	3.5	10.1	102.5
232	Men's and boys' furnishings -	E1	28	11	0.8	6.6	0.7	1.3	5.0	12.9	23.0	35.8	0.1	(NA)	(NA)
2329	Men's and boys' clothing, n.e.c. -	-	11	6	0.4	4.1	0.4	0.8	3.0	8.9	18.0	26.7	(Z)	(NA)	(NA)
236	Children's outerwear -	E1	14	9	0.5	3.0	0.4	0.7	2.3	8.4	17.0	25.5	0.1	0.5	2.4
2369	Children's outerwear, n.e.c. -	-	8	6	0.3	2.3	0.3	0.5	1.8	7.4	16.0	23.5	0.1	(NA)	(NA)
238	Miscellaneous apparel and accessories -	E1	14	7	0.6	4.3	0.5	0.9	3.4	10.0	7.6	17.4	(D)	0.7	7.6
239	Miscellaneous fabricated textile products -	E1	92	21	1.3	10.9	1.1	1.9	7.8	22.0	21.4	43.2	1.0	1.0	13.1

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Nassau-Suffolk SMSA—Con.														
25	Furniture and fixtures -----	E2	142	30	2.4	24.2	1.9	3.7	16.2	48.3	37.4	85.7	2.9	2.6	36.5
251	Household furniture -----	E3	65	12	0.9	7.4	0.7	1.4	5.2	15.3	12.2	27.4	0.5	1.1	12.5
2511	Wood household furniture -----	E5	38	4	0.3	2.6	0.3	0.5	1.9	5.0	4.5	9.5	(D)	0.3	3.0
2514	Metal household furniture -----	E2	14	5	0.3	3.0	0.3	0.5	2.2	6.0	3.8	9.9	(D)	0.5	5.0
254	Partitions and fixtures -----	E1	43	10	0.9	9.6	0.7	1.4	6.2	18.5	14.4	32.6	(D)	0.6	9.7
2541	Wood partitions and fixtures -----	E2	29	3	0.3	3.4	0.3	0.6	2.4	6.3	4.9	11.0	(D)	(NA)	(NA)
2542	Metal partitions and fixtures -----	-	14	7	0.5	6.2	0.4	0.8	3.8	12.2	9.5	21.6	(D)	(NA)	(NA)
259	Miscellaneous furniture and fixtures -----	E1	19	6	0.5	5.2	0.4	0.7	3.3	9.6	8.2	18.1	0.8	(NA)	(NA)
26	Paper and allied products ---	E2	103	47	5.0	56.6	4.0	7.5	37.7	119.6	147.8	265.4	6.9	4.1	64.1
264	Miscellaneous converted paper products -----	E3	70	30	3.1	32.0	2.4	4.6	20.8	73.4	89.4	161.8	5.3	2.4	35.5
2643	Bags, except textile bags -----	E4	20	12	1.4	13.4	1.1	2.2	8.8	33.8	42.5	77.0	2.6	1.0	16.8
2649	Converted paper products, n.e.c. -----	E1	22	8	0.6	6.8	0.5	1.0	4.6	15.5	19.3	34.3	1.0	0.3	5.2
265	Paperboard containers and boxes -----	-	33	17	2.0	24.7	1.6	2.9	16.9	46.3	58.3	103.6	1.6	(NA)	(NA)
2651	Folding paperboard boxes -----	-	14	8	1.2	14.3	1.0	1.7	9.9	28.8	30.2	58.3	0.5	0.7	12.5
2653	Corrugated and solid fiber boxes -----	-	14	7	0.7	9.5	0.5	1.0	6.3	15.3	23.0	38.0	1.0	0.7	11.2
27	Printing and publishing ----	E1	809	128	12.1	164.8	7.3	13.8	85.0	364.0	207.6	569.8	30.0	10.5	215.3
2711	Newspapers -----	-	74	14	2.4	40.3	0.8	1.3	10.3	95.0	34.5	129.4	(D)	2.4	56.2
273	Books -----	E2	72	18	1.2	14.4	0.6	1.1	5.8	38.2	25.9	62.7	1.4	1.0	27.1
2741	Miscellaneous publishing -----	-	50	10	0.9	10.4	0.5	0.9	3.8	26.9	13.2	39.2	(D)	0.7	18.8
275	Commercial printing -----	E2	446	50	5.0	66.9	3.8	7.2	46.7	130.8	90.9	222.5	8.6	4.4	71.0
2751	Commercial printing, letterpress -----	E2	239	21	1.9	21.7	1.4	2.5	13.9	39.6	30.3	69.7	1.6	1.7	28.5
2752	Commercial printing, lithographic -----	E1	192	27	3.0	43.7	2.4	4.5	31.7	87.9	59.2	148.0	7.0	2.5	39.9
2761	Manifold business forms -----	E1	13	8	0.5	7.5	0.4	0.7	5.4	15.0	14.6	29.5	0.8	0.3	5.6
278	Blankbooks and bookbinding -----	E1	36	8	0.7	6.6	0.6	1.2	4.5	12.2	7.6	19.7	1.1	0.7	13.9
2782	Blankbooks and looseleaf binders -----	-	15	7	0.5	4.7	0.4	0.9	3.0	8.4	7.0	15.3	1.0	0.6	12.0
28	Chemicals and allied products -----	-	141	48	6.1	71.0	3.8	7.0	33.6	395.1	299.5	687.4	12.9	5.1	136.7
283	Drugs -----	-	36	16	2.1	27.7	0.9	1.7	8.9	83.2	56.7	139.3	(D)	1.7	51.4
2834	Pharmaceutical preparations -----	-	27	10	1.7	22.8	0.7	1.3	7.0	65.9	45.8	111.7	(D)	1.5	45.9
284	Soaps, cleaners, and toilet goods -----	-	46	14	3.0	27.8	2.3	4.1	18.3	261.8	115.5	372.1	(D)	2.4	59.9
289	Miscellaneous chemical products -----	E1	30	9	0.5	7.4	0.3	0.5	3.0	29.4	88.4	116.8	(D)	0.5	15.1
29	Petroleum and coal products -----	E3	23	3	0.4	5.6	0.3	0.6	3.6	8.7	26.1	35.0	0.9	0.3	12.9
295	Paving and roofing materials -----	E3	16	3	0.3	4.8	0.2	0.5	3.2	7.0	21.9	29.1	0.8	0.3	12.1
30	Rubber and miscellaneous plastics products -----	E2	202	67	5.3	54.2	4.2	8.1	35.3	119.6	134.1	252.8	8.2	4.6	69.8
3079	Miscellaneous plastics products -----	E2	187	65	5.1	52.6	4.1	7.8	34.2	116.2	131.0	246.4	8.0	4.5	67.8
31	Leather and leather products -----	E5	18	8	0.6	4.1	0.5	0.9	2.8	7.6	6.5	14.1	0.1	0.3	3.2
314	Footwear, except rubber --	E2	3	3	0.3	1.9	0.2	0.5	1.4	3.0	2.2	5.2	(D)	(NA)	(NA)
3272	Concrete products, n.e.c. -----	E1	27	7	0.5	6.8	0.4	0.8	4.5	14.3	9.4	22.9	(D)	0.5	11.8
33	Primary metal industries ---	E1	70	23	2.0	25.0	1.6	3.2	15.7	52.0	94.9	146.1	(D)	1.6	29.5
335	Nonferrous rolling and drawing -----	-	17	10	1.0	12.4	0.8	1.6	7.1	28.5	72.4	100.1	1.3	0.7	14.6
3357	Nonferrous wire drawing and insulating ---	-	8	6	0.3	3.0	0.2	0.4	1.9	7.6	23.6	31.8	0.7	(NA)	(NA)
336	Nonferrous foundries -----	E1	26	10	0.6	7.9	0.5	1.0	5.1	14.5	10.5	25.0	(D)	0.6	9.5

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Nassau-Suffolk SMSA—Con.														
33	Primary metal industries—Con.														
339	Miscellaneous primary metal products -----	E8	16	3	0.3	3.7	0.3	0.5	2.8	6.9	7.4	14.3	0.5	(NA)	(NA)
34	Fabricated metal products ---	E1	511	136	12.4	148.4	9.7	19.2	98.5	299.0	297.2	591.6	23.3	13.1	209.4
342	Cutlery, hand tools, and hardware -----	-	35	12	1.4	15.3	1.2	2.3	10.0	38.1	38.7	74.4	1.4	1.1	15.6
3429	Hardware, n.e.c. -----	E1	21	6	0.5	5.8	0.4	0.7	3.4	11.8	11.2	22.4	0.5	(NA)	(NA)
343	Plumbing and heating, except electric -----	-	15	8	1.3	14.7	1.0	1.9	8.9	34.6	40.1	72.0	3.1	1.2	20.7
3432	Plumbing fittings and brass goods -----	E1	4	3	0.5	5.1	0.4	0.8	3.4	11.3	20.1	29.8	(D)	(NA)	(NA)
3433	Heating equipment, except electric -----	-	11	5	0.8	9.6	0.6	1.1	5.5	23.3	20.0	42.3	(D)	0.8	13.3
344	Fabricated structural metal products -----	E1	188	51	4.1	51.8	3.1	6.1	34.4	94.5	105.5	201.2	4.4	4.6	72.7
3441	Fabricated structural metal -----	E2	29	6	0.4	5.7	0.3	0.7	3.8	9.3	11.2	22.6	0.5	0.5	9.7
3442	Metal doors, sash, and trim -----	-	44	22	1.5	17.1	1.1	2.3	10.5	33.0	36.8	71.2	1.3	2.0	29.2
3443	Fabricated plate work (boiler shops) -----	E2	18	3	0.4	5.1	0.3	0.7	4.0	9.7	9.8	19.3	(D)	(NA)	(NA)
3444	Sheet metal work -----	E2	66	17	1.4	19.4	1.1	2.0	13.6	33.7	22.4	55.9	1.0	1.4	24.1
345	Screw machine products, bolts, etc. -----	E1	43	11	1.3	15.2	1.0	2.1	11.0	23.3	30.0	52.3	3.4	1.5	25.7
3451	Screw machine products -----	E1	28	6	0.4	5.2	0.3	0.7	3.4	10.7	12.9	23.1	1.0	(NA)	(NA)
3452	Bolts, nuts, rivets, and washers -----	E1	15	5	0.8	9.9	0.7	1.5	7.5	12.6	17.1	29.2	2.4	(NA)	(NA)
346	Metal forgings and stampings -----	E1	65	16	1.2	15.5	1.0	1.9	10.4	28.2	21.4	49.2	1.3	1.7	29.0
347	Metal services, n.e.c. -----	E1	59	11	0.7	7.9	0.6	1.4	5.9	15.0	8.3	22.7	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	E1	93	23	1.7	20.9	1.3	2.4	12.1	51.2	44.9	96.5	4.8	1.4	24.6
3494	Valves and pipe fittings -----	-	11	5	0.5	7.4	0.4	0.7	3.7	23.5	19.9	44.7	(D)	0.4	9.5
3499	Fabricated metal products, n.e.c. -----	E1	61	12	0.8	10.1	0.7	1.3	6.4	21.1	17.3	37.7	1.0	0.7	10.4
35	Machinery, except electrical -	E1	714	111	10.5	139.7	6.9	13.7	76.1	296.3	196.7	487.7	14.9	9.1	163.0
354	Metalworking machinery ---	E1	129	17	1.8	26.0	1.2	2.5	14.7	57.0	36.8	91.1	2.8	1.6	30.1
3544	Special dies, tools, jigs, and fixtures -----	E3	84	6	0.5	7.6	0.5	0.9	5.7	11.9	4.8	16.5	1.1	0.5	9.2
3545	Machine tool accessories -----	-	21	5	0.7	9.6	0.5	0.9	5.4	23.7	10.6	32.9	1.0	(NA)	(NA)
355	Special industry machinery -----	E1	68	18	1.2	16.8	0.7	1.4	8.5	33.8	26.0	59.3	(D)	1.1	20.8
3555	Printing trades machinery -----	-	21	5	0.5	5.6	0.3	0.5	2.7	12.1	8.3	20.3	(D)	(NA)	(NA)
3559	Special industry machinery, n.e.c. -----	E2	28	5	0.5	6.1	0.3	0.6	3.4	11.6	9.7	20.5	0.2	0.4	6.7
356	General industrial machinery -----	-	57	17	1.4	17.6	0.9	1.7	9.8	46.6	29.0	76.0	2.2	1.4	30.4
3569	General industrial machinery, n.e.c. -----	-	27	7	0.5	7.0	0.3	0.6	3.7	15.1	9.2	24.2	0.7	0.4	7.6
357	Office and computing machines -----	-	32	16	2.5	33.2	1.2	2.5	12.1	72.8	48.3	120.0	4.3	1.9	31.3
3573	Electronic computing equipment -----	-	26	14	1.9	26.7	1.1	2.3	11.4	58.7	42.3	98.9	2.5	(NA)	(NA)
358	Refrigeration and service machinery -----	E4	27	3	0.3	2.9	0.2	0.3	1.8	5.9	6.4	12.3	(D)	0.5	9.6
359	Miscellaneous machinery, except electrical -----	E3	372	34	3.0	38.6	2.4	4.8	26.7	69.8	37.1	106.0	4.2	2.3	36.2
36	Electric and electronic equipment -----	-	441	178	30.8	401.3	19.6	37.9	213.4	808.5	490.3	1 309.6	34.8	30.3	543.3
361	Electric distributing equipment -----	E5	11	5	0.3	4.1	0.2	0.5	2.3	8.0	5.8	13.7	0.2	(NA)	(NA)
3613	Switchgear and switchboard apparatus -	E5	11	5	0.3	4.1	0.2	0.5	2.3	8.0	5.8	13.7	0.2	(NA)	(NA)
362	Electrical industrial apparatus -----	-	24	10	1.7	17.8	1.3	2.6	11.5	44.1	22.0	64.3	3.7	1.3	21.3
363	Household appliances -----	-	13	4	0.5	4.1	0.4	0.8	2.9	10.8	10.6	20.9	0.7	(NA)	(NA)
364	Electric lighting and wiring equipment -----	-	67	22	2.7	27.7	2.0	3.6	15.6	71.3	77.2	146.1	4.0	2.3	44.4
3645	Residential lighting fixtures -----	-	37	13	1.2	11.6	0.9	1.6	6.2	29.0	32.5	60.4	1.1	0.9	14.0
365	Radio and TV receiving equipment -----	E1	34	17	1.9	18.3	1.3	2.4	9.6	38.4	42.2	80.9	1.6	(NA)	(NA)
366	Communication equipment -----	-	106	59	15.5	234.9	8.7	17.2	121.3	462.2	216.5	681.6	13.6	17.4	329.6
367	Electronic components and accessories -----	-	155	54	7.5	87.4	5.1	9.6	46.2	162.2	100.9	271.9	10.5	6.3	107.2

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Nassau-Suffolk SMSA—Con.														
36	Electric and electronic equipment—Con.														
369	Miscellaneous electrical equipment and supplies --	E1	31	7	0.7	7.0	0.6	1.1	4.0	11.3	14.9	30.2	0.6	1.2	16.7
3699	Electrical equipment and supplies, n.e.c. ----	E1	17	5	0.6	4.7	0.5	0.9	3.0	11.1	11.3	21.9	0.3	0.7	9.4
38	Instruments and related products -----	E1	225	86	9.1	117.4	5.4	10.7	54.9	271.2	176.9	441.1	8.7	7.8	145.1
382	Measuring and controlling devices -----	-	68	34	4.0	56.0	2.1	4.2	22.6	111.6	62.6	170.2	4.1	3.3	60.8
384	Medical instruments and supplies -----	E1	55	12	1.4	14.5	1.0	1.9	7.6	37.0	23.7	60.1	1.1	1.2	19.2
39	Miscellaneous manufacturing industries ---	E1	298	57	5.8	57.4	4.1	7.6	32.3	119.2	132.4	250.9	3.9	6.2	95.3
391	Jewelry, silverware, and plated ware -----	-	40	7	0.5	4.9	0.4	0.7	2.6	9.6	29.1	38.3	0.2	0.3	3.9
394	Toys and sporting goods --	E1	43	10	2.1	19.8	1.3	2.3	9.8	45.9	43.4	89.2	0.8	2.7	48.9
3944	Games, toys, and children's vehicles -----	-	18	5	1.6	15.7	0.9	1.7	7.3	37.5	34.2	71.6	0.4	2.1	38.7
395	Pens, pencils, office and art supplies -----	-	20	7	0.9	9.7	0.6	1.1	5.0	17.2	21.5	37.3	0.8	0.8	11.7
3955	Carbon paper and inked ribbons -----	-	5	4	0.6	7.3	0.4	0.7	3.5	12.9	18.5	30.2	(D)	(NA)	(NA)
399	Miscellaneous manufactures -----	E2	166	26	1.9	19.0	1.5	2.7	12.0	39.1	31.1	71.4	1.8	1.8	23.6
3993	Signs and advertising displays -----	E2	79	11	0.8	9.1	0.6	1.1	5.7	17.3	12.7	29.8	0.7	(NA)	(NA)
3999	Manufacturing industries, n.e.c. -----	E3	79	13	1.0	9.0	0.8	1.5	5.9	18.1	14.4	34.1	1.0	0.7	8.6
	New York, N.Y.-N.J., SMSA ---	-	25 831	8 040	796.6	10 313.0	489.0	909.7	4 519.2	19 878.3	21 494.9	41 187.9	862.5	940.2	15 120.8
20	Food and kindred products --	-	891	289	34.1	479.3	23.1	46.7	286.3	1 528.8	2 537.9	4 071.5	89.5	47.9	1 287.2
201	Meat products -----	E1	118	42	3.6	58.4	2.9	6.2	44.2	129.0	331.1	460.6	12.6	4.9	95.0
2011	Meat packing plants -----	E7	27	4	0.3	4.0	0.2	0.5	3.1	7.2	34.6	41.7	(D)	0.3	7.3
2013	Sausages and other prepared meats -----	E1	85	37	3.2	52.7	2.5	5.3	39.6	117.5	283.6	402.2	10.8	4.3	82.2
202	Dairy products -----	-	78	28	3.0	49.0	1.7	3.7	28.0	118.3	363.0	479.9	4.1	4.4	129.8
2024	Ice cream and frozen desserts -----	-	30	9	0.9	15.1	0.5	1.1	8.7	37.9	64.0	101.9	2.0	1.4	43.0
2026	Fluid milk -----	-	30	14	1.8	31.0	1.0	2.2	17.5	76.2	261.5	336.5	1.8	2.8	79.9
203	Preserved fruits and vegetables -----	E2	87	38	2.8	31.0	2.0	4.1	18.8	96.0	113.1	209.0	3.5	2.4	53.4
2033	Canned fruits and vegetables -----	E7	21	8	0.4	3.8	0.3	0.6	2.7	13.3	17.5	30.9	0.6	0.4	8.4
2034	Dehydrated fruits, vegetables, and soups --	-	6	5	0.5	4.3	0.3	0.7	3.1	11.7	11.6	23.2	0.6	(NA)	(NA)
2035	Pickles, sauces, and salad dressings -----	E1	27	13	0.8	9.6	0.6	1.0	5.1	30.6	38.0	68.5	0.9	0.9	22.9
2038	Frozen specialties -----	-	21	10	1.0	12.2	0.7	1.5	7.1	36.6	40.5	77.1	1.2	0.8	12.5
204	Grain mill products -----	-	13	8	0.7	12.8	0.5	1.1	7.1	38.6	54.5	92.5	(D)	0.5	14.8
2045	Blended and prepared flour -----	-	5	4	0.5	10.7	0.3	0.8	5.7	31.5	43.7	74.7	(D)	(NA)	(NA)
205	Bakery products -----	E1	248	56	9.3	125.5	6.1	11.7	70.7	326.9	218.4	545.0	7.3	11.9	230.0
206	Sugar and confectionery products -----	-	60	24	5.1	65.8	3.9	7.5	45.4	281.6	394.9	676.1	31.0	5.6	176.2
2065	Confectionery products --	E1	47	17	2.1	21.0	1.7	3.4	14.5	88.2	63.6	151.5	3.7	(NA)	(NA)
207	Fats and oils -----	-	12	3	0.3	5.8	0.2	0.4	3.6	25.3	104.9	132.3	(D)	1.1	40.2
208	Beverages -----	-	107	34	4.5	70.3	2.3	4.8	32.2	287.6	365.7	653.6	13.2	11.1	390.7
2086	Bottled and canned soft drinks -----	-	58	18	3.1	47.7	1.5	3.0	21.1	151.7	236.8	388.4	9.5	4.3	108.0
2087	Flavoring extracts and sirups, n.e.c. -----	-	33	13	1.0	15.2	0.5	1.2	7.1	114.4	93.3	208.1	2.5	1.3	82.1
209	Miscellaneous foods and kindred products -----	-	168	56	4.7	60.7	3.4	7.2	36.4	225.4	592.4	822.5	12.9	5.9	157.2
2091	Canned and cured seafoods -----	-	18	9	0.5	5.7	0.3	0.7	3.5	18.4	32.6	51.2	0.4	(NA)	(NA)
2098	Macaroni and spaghetti --	-	34	9	1.0	11.1	0.8	1.9	8.2	37.0	40.8	77.8	1.0	(NA)	(NA)
2099	Food preparations, n.e.c. -----	-	75	21	1.9	25.5	1.4	2.9	14.5	62.5	105.3	168.8	9.8	2.9	73.4
2251	Women's hosiery, except socks -----	E0	7	3	0.4	2.5	0.3	0.6	2.0	4.8	5.0	9.8	(D)	(NA)	(NA)
2253	Knit outerwear mills -----	E2	440	236	15.5	131.4	13.4	24.8	96.1	232.7	328.9	556.4	(D)	18.5	225.4
2257	Circular knit fabric mills --	-	132	50	4.9	49.6	4.0	8.0	36.8	106.1	297.3	404.8	(D)	8.3	162.9

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	New York, N.Y.-N.J., SMSA—Con.														
2258	Warp knit fabric mills ---	-	50	23	2.4	24.5	2.1	4.4	16.8	43.5	102.7	147.0	(D)	1.8	35.8
2259	Knitting mills, n.e.c. ----	E3	64	18	1.3	10.3	1.2	2.3	8.0	13.4	23.6	36.8	(D)	(NA)	(NA)
2262	Finishing plants, synthetics ----	E1	40	23	1.6	19.0	1.4	3.1	14.5	33.4	40.8	76.0	3.8	2.4	29.4
2269	Finishing plants, n.e.c. --	-	23	9	1.0	11.3	0.9	1.8	8.3	24.6	25.3	48.3	(D)	2.2	30.5
2282	Throwing and winding mills ----	E1	12	2	0.3	3.2	0.3	0.6	2.3	5.1	10.1	15.0	0.5	0.4	4.7
2295	Coated fabrics, not rubberized ----	E2	17	10	0.5	5.2	0.3	0.6	2.9	11.0	15.1	25.7	0.6	1.2	24.0
2299	Textile goods, n.e.c. ----	E5	92	22	1.3	10.9	1.1	2.2	8.0	21.1	26.8	47.4	1.7	(NA)	(NA)
23	Apparel and other textile products ----	E2	7 374	2 841	192.1	1 589.9	157.6	274.3	1 052.6	3 609.0	5 066.0	8 599.8	72.1	219.4	2 883.9
232	Men's and boys' furnishings ----	E1	442	182	18.9	147.4	14.5	25.9	91.8	353.6	606.8	931.3	12.2	16.9	257.6
2321	Men's and boys' shirts and nightwear ----	E1	135	59	4.7	40.0	3.7	6.8	20.7	139.9	320.7	428.6	1.2	4.7	77.2
2327	Men's and boys' separate trousers ----	E1	95	31	7.5	52.5	5.2	8.8	34.3	108.5	158.4	269.1	3.5	(NA)	(NA)
2328	Men's and boys' work clothing ----	E3	26	15	0.7	4.7	0.6	1.0	3.5	9.6	12.2	22.0	0.2	(NA)	(NA)
2329	Men's and boys' clothing, n.e.c. ----	E1	93	40	3.5	26.5	3.0	5.8	18.2	49.1	68.0	118.7	5.6	(NA)	(NA)
233	Women's and misses' outerwear ----	E2	3 793	1 674	99.5	807.1	82.0	140.5	532.0	1 935.9	2 586.4	4 490.0	36.1	103.7	1 321.4
2331	Women's and misses' blouses and waists ----	-	333	182	11.3	95.5	9.2	15.6	59.1	318.3	416.4	731.3	5.8	9.4	147.2
2335	Women's and misses' dresses ----	E3	2 277	875	49.8	380.8	41.5	71.2	258.0	797.7	946.6	1 734.9	16.3	57.5	666.5
2337	Women's and misses' suits and coats ----	E1	620	326	19.8	180.7	16.1	28.3	118.6	416.5	612.2	1 024.0	5.5	23.3	344.0
2339	Women's and misses' outerwear, n.e.c. ----	E2	563	291	18.6	150.1	15.1	25.5	96.3	403.4	611.2	999.7	8.4	13.6	163.8
234	Women's and children's undergarments ----	-	317	156	11.6	95.0	9.0	15.6	51.9	231.8	345.2	573.7	2.3	15.6	239.9
2341	Women's and children's underwear ----	E1	255	126	8.2	66.2	6.5	11.2	38.4	166.0	252.7	416.0	1.5	9.1	141.9
2342	Brassieres and allied garments ----	-	82	30	3.4	28.8	2.5	4.4	13.5	65.7	92.5	157.8	0.8	6.5	98.0
235	Hats, caps, and millinery --	E3	175	51	3.0	22.6	2.5	4.5	16.1	39.5	43.4	82.5	(D)	3.5	35.2
236	Children's outerwear ----	E1	301	158	10.2	78.1	8.5	15.0	53.6	172.6	243.1	414.7	2.2	14.7	205.4
2361	Children's dresses and blouses ----	E1	147	88	5.5	43.2	4.4	7.9	28.5	102.1	140.6	239.7	1.1	6.4	95.8
2363	Children's coats and suits ----	E1	46	19	1.2	10.1	1.0	1.7	7.0	21.2	34.4	55.0	0.4	2.7	36.4
2369	Children's outerwear, n.e.c. ----	E2	108	51	3.5	24.8	3.0	5.4	18.1	49.3	68.1	120.0	0.6	5.6	73.2
238	Miscellaneous apparel and accessories ----	E1	461	190	11.9	96.9	10.2	17.6	65.7	207.2	268.1	469.0	6.2	16.1	205.6
2386	Leather and sheep lined clothing ----	E1	112	34	2.0	18.0	1.7	3.0	13.3	30.2	55.7	85.0	0.3	2.1	27.4
2387	Apparel belts ----	E1	139	53	3.2	25.5	2.7	4.5	16.2	48.6	49.1	96.1	0.9	5.0	61.9
239	Miscellaneous fabricated textile products ----	E2	1 197	318	23.6	206.3	19.7	35.6	140.9	392.1	552.2	944.3	9.7	28.3	335.0
2391	Curtains and draperies --	-	147	37	2.7	23.4	2.4	4.2	16.7	53.6	105.2	158.4	0.5	3.5	39.1
2392	House furnishings, n.e.c. ----	E1	247	81	7.3	56.5	5.9	11.0	36.4	110.7	207.2	316.9	3.0	7.6	102.4
2393	Textile bags ----	E1	22	5	0.5	4.4	0.4	0.8	2.7	8.6	10.5	19.2	0.1	(NA)	(NA)
2394	Canvas and related products ----	E2	39	6	0.7	5.2	0.6	0.9	3.7	7.8	7.6	15.5	0.2	(NA)	(NA)
2395	Pleating and stitching --	E2	272	74	4.9	41.4	4.2	7.2	28.3	78.3	82.2	159.5	1.9	6.7	71.6
2396	Automotive and apparel trimmings ----	E3	242	65	3.9	42.9	3.3	6.0	30.3	72.6	79.9	153.5	1.7	5.5	65.0
2397	Schiffli machine embroideries ----	E1	106	17	1.3	14.6	1.1	2.2	10.1	27.7	25.6	53.4	1.3	1.2	21.3
2398	Fabricated textile products, n.e.c. ----	E3	122	33	2.2	17.9	1.9	3.2	12.7	32.8	33.9	68.0	1.2	2.3	21.4
242	Sawmills and planing mills --	E2	43	8	0.5	4.2	0.4	0.8	3.2	6.2	6.5	12.8	0.3	(NA)	(NA)
2426	Hardwood dimension and flooring ----	E1	28	5	0.3	2.9	0.3	0.5	2.2	4.6	4.4	9.0	0.1	0.5	4.7
243	Millwork, plywood, and structural members ----	E2	161	28	2.2	26.4	1.8	3.5	19.2	46.8	48.8	93.9	1.8	2.8	38.8
2431	Millwork ----	E2	85	14	1.0	13.9	0.9	1.7	9.8	24.9	33.4	56.9	1.2	1.5	21.1
2434	Wood kitchen cabinets --	E3	71	13	1.1	12.1	0.9	1.8	9.0	20.9	14.7	35.4	(D)	1.3	15.7
244	Wood containers ----	E1	22	5	0.3	2.5	0.3	0.5	1.7	3.6	4.5	8.0	0.1	0.7	6.0

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
		E ¹													
	New York, N.Y.-N.J., SMSA—Con.														
249	Miscellaneous wood products -----	E1	142	17	1.7	17.8	1.4	2.6	10.9	34.7	37.7	72.5	1.6	2.5	30.5
2499	Wood products, n.e.c.---	E1	138	17	1.7	17.6	1.4	2.5	10.7	34.3	37.2	71.7	(D)	(NA)	(NA)
25	Furniture and fixtures -----	E2	729	164	14.2	150.2	11.4	21.7	103.9	274.4	241.1	511.1	11.3	17.1	233.2
251	Household furniture -----	E3	384	64	5.2	48.0	4.4	8.1	33.5	86.2	91.0	176.1	3.6	7.6	87.7
2511	Wood household furniture -----	E4	189	28	2.2	18.3	1.9	3.6	14.0	32.2	28.7	60.1	2.1	2.6	28.6
2512	Upholstered household furniture -----	E5	66	7	0.6	6.2	0.5	1.0	4.6	10.5	7.7	18.1	0.3	1.3	14.8
2514	Metal household furniture -----	E2	61	16	1.6	14.5	1.2	2.2	9.1	28.1	33.6	61.4	0.8	1.6	21.5
2515	Mattresses and bedsprings -----	E3	48	10	0.7	7.3	0.5	0.9	4.6	12.0	17.7	29.6	(D)	1.5	16.1
252	Office furniture -----	E1	38	20	2.6	26.5	2.0	4.0	17.8	53.7	33.3	84.8	4.1	2.5	35.9
2521	Wood office furniture -----	E1	21	8	0.5	4.7	0.4	0.7	3.8	7.7	5.2	12.9	0.2	(NA)	(NA)
2522	Metal office furniture -----	E1	17	12	2.1	21.8	1.6	3.3	14.0	46.0	28.1	71.9	3.9	(NA)	(NA)
254	Partitions and fixtures -----	E1	193	60	4.6	56.7	3.7	7.1	40.3	94.2	76.0	169.2	2.8	5.0	79.0
2541	Wood partitions and fixtures -----	E1	104	33	2.4	32.4	1.9	3.7	23.8	48.1	33.3	81.2	0.6	2.8	46.6
2542	Metal partitions and fixtures -----	E2	89	27	2.2	24.3	1.8	3.4	16.5	46.0	42.7	88.0	2.2	2.1	32.4
259	Miscellaneous furniture and fixtures -----	E1	106	19	1.6	17.8	1.2	2.3	11.4	38.7	38.8	77.4	0.7	1.7	23.6
2591	Drapery hardware and blinds and shades -----	E1	68	8	0.8	8.0	0.6	1.1	5.4	18.4	15.8	34.0	0.4	(NA)	(NA)
2599	Furniture and fixtures, n.e.c.-----	-	38	11	0.8	9.7	0.6	1.2	6.0	20.4	23.1	43.4	0.3	(NA)	(NA)
26	Paper and allied products -----	E1	471	228	22.1	275.6	17.3	34.3	182.6	568.2	662.3	1 227.8	54.9	25.4	407.1
264	Miscellaneous converted paper products -----	E2	291	116	11.4	138.9	8.8	17.4	91.0	299.6	360.2	655.4	33.7	12.3	196.1
2641	Paper coating and glazing -----	E3	36	15	1.0	14.4	0.8	1.6	9.8	24.8	30.2	55.2	0.9	1.1	20.0
2642	Envelopes -----	-	30	21	2.6	31.7	2.1	4.1	21.8	65.1	67.3	131.9	3.5	2.8	45.6
2643	Bags, except textile bags -----	E3	54	23	1.8	23.2	1.3	2.5	13.1	44.6	72.8	116.8	7.8	2.6	37.7
2645	Die-cut paper and board -----	E1	60	21	1.7	20.7	1.4	2.7	14.1	42.3	51.9	93.8	(D)	2.2	38.2
2649	Converted paper products, n.e.c.-----	E3	80	28	3.0	36.0	2.3	4.7	23.0	74.4	89.1	160.5	6.2	1.4	20.2
265	Paperboard containers and boxes -----	E1	168	104	10.0	121.8	7.9	15.6	82.0	226.0	242.1	470.2	12.1	12.3	190.2
2651	Folding paperboard boxes -----	-	51	30	2.8	38.3	2.3	4.6	27.2	73.3	68.1	143.1	2.7	3.2	55.2
2652	Setup paperboard boxes -----	E2	37	28	2.2	19.5	1.9	3.4	13.8	32.9	22.4	55.5	1.2	2.9	34.5
2653	Corrugated and solid fiber boxes -----	E1	58	38	3.8	51.0	2.8	5.6	31.5	95.6	127.4	222.8	7.1	4.9	81.8
2655	Fiber cans, drums, and similar products-----	-	13	5	0.7	8.3	0.6	1.3	6.1	13.4	10.8	24.2	0.7	0.9	10.0
27	Printing and publishing -----	-	4 670	892	120.1	1 855.4	48.4	88.3	679.6	5 437.3	2 959.2	8 411.8	140.7	130.8	3 631.2
2711	Newspapers -----	-	227	53	17.7	329.6	9.8	15.6	181.7	592.6	270.9	863.3	24.4	19.4	437.5
2721	Periodicals -----	-	494	130	27.6	465.7	1.6	3.2	27.9	1 973.7	1 184.1	3 150.8	24.8	25.7	1 067.1
273	Books -----	-	494	137	22.2	327.7	3.5	7.1	39.5	1 465.3	725.9	2 213.1	30.4	23.5	963.2
2731	Book publishing -----	-	363	103	19.4	290.3	1.4	3.1	14.9	1 400.5	677.0	2 095.4	26.9	20.4	902.8
2732	Book printing -----	E2	131	34	2.8	37.4	2.1	3.9	24.5	64.8	48.9	117.7	3.5	3.1	60.4
2741	Miscellaneous publishing -----	-	393	46	9.6	116.1	1.5	2.8	12.6	268.0	103.9	371.1	8.0	9.8	173.7
275	Commercial printing -----	E2	2 243	313	26.5	388.5	19.9	37.0	263.3	724.2	505.1	1 227.1	34.9	31.2	615.8
2751	Commercial printing, letterpress -----	E3	1 220	130	9.7	119.3	7.6	13.7	80.5	228.3	152.1	379.2	12.5	12.7	223.4
2752	Commercial printing, lithographic -----	E1	922	168	14.4	234.3	10.5	20.0	156.5	419.7	326.7	744.3	17.9	16.1	342.8
2753	Engraving and plate printing -----	-	61	12	2.1	30.1	1.6	2.7	22.8	68.2	20.6	89.8	3.8	1.8	35.8
2754	Commercial printing, gravure -----	E3	40	3	0.3	4.7	0.3	0.5	3.6	8.0	5.7	13.7	0.7	0.6	13.8
2761	Manifold business forms -----	-	47	16	1.4	18.5	0.9	1.8	9.9	40.6	30.8	70.8	(D)	1.6	31.8
2771	Greeting card publishing -----	E1	36	9	1.0	9.6	0.5	0.9	3.4	22.0	15.8	37.1	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	New York, N.Y.-N.J., SMSA—Con.														
27	Printing and publishing—Con.														
278	Blankbooks and bookbinding -----	E1	274	82	5.9	62.3	5.1	9.7	47.7	112.7	53.4	165.7	3.9	8.1	113.7
2782	Blankbooks and looseleaf binders -----	E1	63	29	1.9	17.2	1.6	3.1	12.0	36.4	32.0	68.5	1.2	3.1	45.3
2789	Bookbinding and related work -----	E1	211	53	4.0	45.0	3.5	6.6	35.7	76.3	21.4	97.2	2.6	5.0	68.4
279	Printing trade services -----	E1	462	106	8.1	137.4	5.6	10.4	93.6	238.2	69.2	312.7	12.4	9.7	187.5
2791	Typesetting -----	E1	295	69	4.3	67.8	3.2	5.9	49.9	120.1	20.8	139.9	5.5	5.3	104.0
2795	Lithographic platemaking services --	-	101	23	2.0	35.4	1.3	2.5	21.7	58.4	34.1	98.8	3.6	(NA)	(NA)
28	Chemicals and allied products -----	-	685	208	27.3	398.2	16.7	32.7	198.9	1 610.1	1 285.9	2 880.8	128.9	28.5	1 190.9
281	Industrial inorganic chemicals -----	-	21	7	0.8	13.0	0.4	1.0	6.7	50.0	51.8	93.5	20.2	1.0	32.2
2819	Industrial inorganic chemicals, n.e.c. -----	-	14	3	0.5	9.5	0.3	0.6	4.6	30.3	35.0	59.1	(D)	0.5	17.5
283	Drugs -----	-	96	35	9.0	131.6	5.6	10.6	71.9	570.2	338.8	904.4	22.3	8.2	518.5
2834	Pharmaceutical preparations -----	-	65	22	7.8	115.3	4.9	9.1	62.4	517.8	278.1	794.5	16.9	7.2	494.5
284	Soaps, cleaners, and toilet goods -----	-	257	76	10.3	151.2	6.4	12.8	71.0	687.3	493.6	1 184.1	21.3	10.6	436.3
2841	Soap and other detergents -----	-	47	15	2.0	36.3	1.3	2.8	21.6	102.7	166.5	270.0	10.2	1.9	99.3
2842	Polishes and sanitation goods -----	E1	73	22	1.7	21.5	0.9	1.8	8.7	77.6	68.4	146.9	3.0	2.1	63.4
2843	Surface active agents -----	-	14	6	0.4	6.2	0.2	0.4	2.8	17.7	32.6	49.4	0.5	0.6	21.9
2844	Toilet preparations -----	-	123	33	6.2	87.3	4.0	7.8	37.9	489.4	226.0	717.8	7.6	6.0	251.7
2851	Paints and allied products -----	E2	115	34	2.2	28.4	1.3	2.5	14.0	78.4	107.0	184.2	4.3	3.0	64.2
286	Industrial organic chemicals -----	-	41	18	2.5	37.7	1.6	3.2	19.2	134.2	169.3	299.9	11.1	1.9	48.8
2865	Cyclic crudes and intermediates -----	-	11	6	0.8	11.2	0.5	1.0	6.6	33.9	52.7	85.1	(D)	(NA)	(NA)
2869	Industrial organic chemicals, n.e.c. -----	-	27	12	1.7	26.3	1.1	2.2	12.4	99.9	115.2	212.6	9.3	1.4	35.7
289	Miscellaneous chemical products -----	E1	141	35	2.4	33.9	1.3	2.4	14.6	78.2	107.8	185.5	(D)	3.2	81.0
2891	Adhesives and sealants -----	E1	31	7	0.4	6.0	0.3	0.5	2.5	13.0	19.5	32.3	(D)	0.6	17.6
2893	Printing ink -----	E1	33	15	1.1	16.5	0.6	1.2	8.4	37.8	52.9	90.1	(D)	1.2	27.2
2893	Chemical preparations, n.e.c. -----	E1	77	13	0.8	11.4	0.4	0.7	3.7	27.4	35.4	63.1	(D)	1.5	36.3
29	Petroleum and coal products -----	E2	38	11	0.6	9.7	0.3	0.7	5.1	17.1	41.6	59.9	0.9	(NA)	(NA)
295	Paving and roofing materials -----	E2	24	6	0.3	4.6	0.2	0.4	2.7	8.7	25.2	34.1	0.4	0.9	31.9
30	Rubber and miscellaneous plastics products -----	E2	541	193	15.2	160.5	12.2	23.3	105.9	339.3	381.0	714.3	28.1	18.3	280.9
3041	Rubber and plastics hose and belting -----	-	7	5	0.5	5.6	0.3	0.7	3.4	20.4	19.4	38.7	(D)	(NA)	(NA)
3060	Fabricated rubber products, n.e.c. -----	E4	35	7	0.5	6.0	0.4	0.9	4.2	10.0	7.1	17.0	0.3	0.7	10.7
3079	Miscellaneous plastics products -----	E2	496	181	14.2	148.7	11.4	21.7	98.2	308.5	354.1	657.7	27.2	16.5	252.5
31	Leather and leather products -----	E2	497	211	18.6	142.7	16.1	29.1	101.8	282.9	272.1	552.5	6.6	23.7	240.9
314	Footwear, except rubber -----	E1	57	34	4.4	32.2	3.9	6.8	25.3	55.9	47.2	103.2	1.9	6.7	66.2
3149	Footwear, except rubber, n.e.c. -----	E5	12	7	0.6	4.5	0.6	0.9	3.7	8.4	6.7	15.1	(D)	(NA)	(NA)
3161	Luggage -----	E1	69	37	3.7	29.5	3.2	5.7	20.4	59.2	52.5	110.5	0.7	3.3	34.5
317	Handbags and other personal leather goods --	E2	247	121	9.0	68.8	7.8	14.5	47.9	145.4	142.5	287.2	3.5	12.0	119.8
3171	Women's handbags and purses -----	E2	177	87	6.8	51.6	6.0	11.2	37.3	112.2	106.0	217.8	2.9	8.9	83.4
3172	Personal leather goods -----	E2	70	34	2.2	17.2	1.8	3.3	10.6	33.2	36.4	69.4	0.6	3.0	36.4
3199	Leather goods, n.e.c. -----	E3	66	12	1.0	7.5	0.8	1.4	4.8	13.9	14.4	27.7	0.2	(NA)	(NA)
32	Stone, clay, and glass products -----	E1	379	84	6.6	79.2	5.1	10.1	54.3	172.8	173.1	346.8	13.4	9.2	160.4
322	Glass and glassware, pressed or blown -----	-	14	4	0.5	6.7	0.5	1.0	5.6	19.5	13.8	33.6	0.7	(NA)	(NA)
3231	Products of purchased glass -----	E2	101	25	2.0	22.2	1.6	3.1	15.3	45.7	40.7	85.7	4.4	2.2	31.1
326	Pottery and related products -----	E3	26	6	0.3	2.6	0.3	0.5	1.9	5.6	3.0	8.6	0.3	0.5	6.9

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	E1	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	New York, N.Y.-N.J., SMSA—Con.														
32	Stone, clay, and glass products—Con.														
327	Concrete, gypsum, and plaster products -----	E1	111	23	1.8	25.8	1.3	2.6	17.7	48.5	73.8	123.8	4.4	3.3	75.4
3272	Concrete products, n.e.c. -----	E4	51	6	0.4	5.0	0.3	0.6	3.1	10.7	7.6	18.2	0.6	0.9	16.4
3273	Ready-mixed concrete -----	E1	39	11	0.7	11.4	0.5	0.9	7.7	19.3	27.6	46.9	1.0	1.4	35.8
3275	Gypsum products -----	-	7	4	0.5	7.5	0.4	0.9	5.8	15.0	32.9	49.6	(D)	0.8	17.8
3281	Cut stone and stone products -----	E2	30	2	0.3	2.5	0.1	0.3	1.2	4.5	3.2	7.7	0.1	(NA)	(NA)
329	Miscellaneous nonmetallic mineral products -----	E2	92	22	1.7	18.9	1.3	2.6	12.1	47.9	37.9	85.5	3.5	2.0	30.8
3291	Abrasive products -----	E3	28	11	0.7	8.0	0.5	1.0	5.0	22.6	17.9	40.4	1.5	0.6	9.1
3299	Nonmetallic mineral products, n.e.c. -----	E2	38	5	0.4	4.2	0.3	0.6	2.5	10.2	4.7	15.0	1.0	0.5	6.3
33	Primary metal industries -----	-	221	85	11.3	147.3	8.4	17.0	95.0	343.9	855.4	1 190.3	13.3	13.2	221.0
331	Blast furnace and basic steel products -----	E2	32	11	0.9	11.6	0.7	1.4	7.9	19.7	30.0	50.3	1.0	1.3	23.9
3315	Steel wire and related products -----	E1	16	6	0.4	4.8	0.3	0.6	3.0	9.1	11.6	20.8	(D)	(NA)	(NA)
3341	Secondary nonferrous metals -----	-	27	6	1.2	18.9	0.9	1.6	11.3	57.5	264.5	312.6	3.1	1.3	30.9
335	Nonferrous rolling and drawing -----	-	43	28	4.7	58.8	3.2	6.5	34.7	147.1	478.0	624.3	4.1	5.6	91.3
3356	Nonferrous rolling and drawing, n.e.c. -----	-	21	11	0.8	11.6	0.6	1.2	7.0	42.6	269.3	310.8	0.9	(NA)	(NA)
3357	Nonferrous wire drawing and insulating -----	-	16	12	3.2	39.1	2.1	4.1	22.2	88.6	177.7	266.7	2.9	4.1	68.0
336	Nonferrous foundries -----	E1	58	22	2.1	22.3	1.7	3.2	15.6	40.4	36.0	77.7	1.9	2.7	34.4
3361	Aluminum foundries -----	E3	17	5	0.4	4.3	0.3	0.7	3.3	6.9	6.1	12.9	0.7	(NA)	(NA)
3369	Nonferrous foundries, n.e.c. -----	-	26	12	1.5	15.8	1.1	2.2	10.7	29.8	27.0	58.2	1.1	2.1	27.7
339	Miscellaneous primary metal products -----	E1	40	13	1.2	18.4	1.0	2.5	13.3	46.0	15.1	60.8	1.6	1.1	20.4
3398	Metal heat treating -----	-	24	7	1.0	14.8	0.8	2.0	11.0	38.2	9.0	47.1	1.1	0.9	17.1
3399	Primary metal products, n.e.c. -----	E2	16	6	0.3	3.7	0.2	0.5	2.3	7.8	6.1	13.7	0.5	(NA)	(NA)
34	Fabricated metal products -----	E1	1 498	450	38.3	456.9	28.9	56.9	283.4	909.5	801.0	1 699.0	44.1	42.1	680.9
341	Metal cans and shipping containers -----	E1	18	8	0.8	10.6	0.6	1.3	8.2	25.6	34.6	60.0	(D)	1.7	31.6
3411	Metal cans -----	E1	13	5	0.3	5.7	0.3	0.6	4.8	12.8	16.1	28.6	0.4	(NA)	(NA)
3412	Metal barrels, drums, and pails -----	E1	5	3	0.4	4.9	0.3	0.7	3.4	12.9	18.5	31.4	(D)	(NA)	(NA)
342	Cutlery, hand tools, and hardware -----	-	95	38	4.7	52.3	3.6	6.8	33.5	123.6	73.5	193.1	7.5	4.4	76.4
3421	Cutlery -----	-	5	3	0.5	4.8	0.4	0.8	3.1	13.6	6.9	18.5	(D)	(NA)	(NA)
3429	Hardware, n.e.c. -----	E1	60	21	3.0	35.3	2.3	4.2	21.7	79.9	49.0	127.7	3.4	3.7	63.0
343	Plumbing and heating, except electric -----	E1	41	13	1.2	12.4	0.8	1.4	5.6	26.9	29.8	58.3	1.1	1.3	28.9
3432	Plumbing fittings and brass goods -----	E1	16	6	0.9	7.8	0.6	1.0	3.6	16.0	17.4	35.3	(D)	(NA)	(NA)
344	Fabricated structural metal products -----	E1	441	108	9.9	137.8	8.8	13.4	76.7	257.2	239.3	496.8	13.3	11.9	194.0
3441	Fabricated structural metal -----	E2	98	14	1.2	17.9	0.9	1.8	11.3	40.1	30.7	70.0	1.5	2.6	60.0
3442	Metal doors, sash, and trim -----	E1	87	27	2.7	26.8	2.0	3.9	18.8	43.0	48.3	91.3	1.1	3.4	39.5
3443	Fabricated plate work (boiler shops) -----	-	35	12	2.1	39.6	1.1	2.1	14.7	70.1	70.3	141.5	2.8	0.8	14.0
3444	Sheet metal work -----	E2	113	36	2.3	30.5	1.7	3.3	19.0	59.1	46.3	106.0	2.8	3.1	47.8
3446	Architectural metal work -----	E2	92	14	0.9	12.5	0.7	1.3	7.9	25.8	16.0	41.9	(D)	1.6	24.9
345	Screw machine products, bolts, etc. -----	E1	80	30	2.1	26.1	1.6	3.3	16.9	46.4	42.7	87.9	1.9	2.5	42.5
3451	Screw machine products -----	E2	51	15	0.9	10.7	0.8	1.7	7.8	20.0	14.4	34.3	0.7	1.3	19.8
3452	Bolts, nuts, rivets, and washers -----	-	29	15	1.2	15.4	0.8	1.6	9.1	26.4	28.3	53.6	1.2	1.2	22.7
346	Metal forgings and stampings -----	E1	174	73	5.7	68.3	4.5	9.1	45.5	142.8	140.7	281.1	7.3	5.6	90.4
347	Metal services, n.e.c. -----	E2	315	82	5.4	49.3	4.6	8.8	34.9	88.9	49.6	137.9	3.2	5.5	67.8
3471	Plating and polishing -----	E2	219	62	4.4	39.0	3.8	7.2	27.9	72.1	33.1	104.7	2.6	4.3	52.7
3479	Metal coating and allied services -----	E2	96	20	1.0	10.4	0.9	1.6	7.0	16.8	16.5	33.2	0.7	1.2	15.2
349	Miscellaneous fabricated metal products -----	E1	328	97	8.4	99.7	6.3	12.6	61.9	197.4	190.5	382.9	9.3	8.5	137.7

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	New York, N.Y.-N.J., SMSA—Con.														
34	Fabricated metal products—Con.														
349	Miscellaneous fabricated metal products—Con.														
3494	Valves and pipe fittings	—	29	11	1.8	24.8	1.2	2.5	14.5	58.7	39.7	96.0	3.2	1.9	44.6
3496	Miscellaneous fabricated wire products	E2	89	25	2.0	20.8	1.6	3.3	14.2	41.6	38.2	79.6	1.7	2.8	35.8
3497	Metal foil and leaf	E1	8	4	0.3	4.0	0.2	0.4	2.6	9.1	14.6	23.8	0.6	(NA)	(NA)
3498	Fabricated pipe and fittings	—	21	11	1.1	14.2	0.8	1.5	8.6	24.6	32.5	55.3	1.3	0.6	10.6
3499	Fabricated metal products, n.e.c.	E2	172	40	2.9	31.4	2.2	4.3	19.0	53.6	59.2	112.3	2.3	2.5	33.2
35	Machinery, except electrical	E1	1 300	234	24.2	322.3	16.6	32.0	185.2	607.3	466.7	1 067.6	38.2	28.0	471.8
353	Construction and related machinery	E1	60	13	1.9	29.3	1.1	2.3	15.7	48.3	36.5	83.1	1.8	3.7	55.9
3534	Elevators and moving stairways	—	11	7	1.3	20.2	0.8	1.6	11.1	26.1	14.6	40.4	(D)	(NA)	(NA)
354	Metalworking machinery	E1	281	44	3.7	49.2	2.7	5.2	32.1	81.1	55.4	136.6	4.7	3.5	56.7
3544	Special dies, tools, jigs, and fixtures	E2	201	25	2.0	26.1	1.6	3.2	18.8	42.1	23.1	64.6	2.6	2.0	33.6
3545	Machine tool accessories	—	38	10	0.9	12.6	0.6	1.1	7.4	24.6	19.4	44.4	1.6	0.8	13.6
355	Special industry machinery	E1	219	52	4.9	68.8	3.0	5.8	34.7	130.6	95.0	222.0	6.0	5.7	99.9
3551	Food products machinery	E4	32	8	0.7	9.2	0.4	0.8	4.1	19.3	14.4	33.5	1.1	0.8	15.1
3555	Printing trades machinery	E1	77	18	1.6	23.3	1.0	2.0	12.9	43.3	36.0	78.4	1.5	1.7	34.1
3559	Special industry machinery, n.e.c.	E2	59	12	0.9	12.2	0.6	1.3	7.3	23.5	14.5	37.6	0.7	1.0	16.8
356	General industrial machinery	E1	150	41	3.3	44.8	2.2	4.2	24.6	87.4	69.3	155.6	4.0	3.2	63.3
3561	Pumps and pumping equipment	—	13	5	0.6	8.5	0.3	0.6	3.7	20.1	16.3	36.6	0.7	0.6	13.6
357	Office and computing machines	—	45	11	3.2	39.1	2.2	4.4	18.9	85.3	88.9	175.5	4.6	3.3	60.5
358	Refrigeration and service machinery	E1	93	26	2.8	32.9	1.9	3.4	18.5	66.8	72.2	136.3	2.6	4.0	64.3
3585	Refrigeration and heating equipment	E2	38	15	1.3	14.8	1.0	1.7	9.7	28.6	34.9	62.5	1.7	2.2	34.5
3589	Service industry machinery, n.e.c.	E1	43	7	1.0	12.0	0.5	1.0	5.6	27.1	25.5	51.1	(D)	1.2	21.7
3599	Machinery, except electrical, n.e.c.	E2	436	44	4.3	56.4	3.4	6.6	39.5	104.9	47.2	153.3	14.3	(NA)	(NA)
36	Electric and electronic equipment	E1	893	303	39.6	475.9	26.4	50.5	243.1	1 098.4	751.4	1 821.2	40.4	49.9	797.8
3613	Switchgear and switchboard apparatus	E1	21	10	0.8	9.0	0.5	1.0	5.3	15.1	15.2	30.1	(D)	(NA)	(NA)
362	Electrical industrial apparatus	—	47	14	2.7	37.3	1.3	2.5	12.1	67.2	43.4	110.1	2.5	3.6	58.1
3621	Motors and generators	—	13	3	0.6	6.7	0.5	0.9	4.6	12.3	9.0	21.5	0.2	1.1	11.5
3622	Industrial controls	E1	20	5	0.8	9.3	0.5	0.8	3.9	18.0	9.8	27.7	0.8	1.3	22.2
363	Household appliances	E2	65	22	1.4	15.1	1.1	2.1	9.7	33.1	27.8	61.0	(D)	4.6	73.4
3634	Electric housewares and fans	E1	18	6	0.4	3.5	0.3	0.6	2.0	10.9	9.3	20.6	0.3	2.7	46.5
364	Electric lighting and wiring equipment	E1	213	86	10.7	109.6	8.4	16.3	70.0	251.3	213.5	452.6	6.9	13.3	195.5
3644	Noncurrent-carrying wiring devices	—	11	6	0.5	5.4	0.5	0.9	4.1	19.5	9.5	28.9	0.2	(NA)	(NA)
3645	Residential lighting fixtures	E1	112	40	2.8	26.9	2.2	4.1	17.2	57.0	55.5	115.0	0.9	4.4	63.3
3646	Commercial lighting fixtures	E2	24	17	1.3	15.3	1.0	1.9	8.5	33.2	30.8	63.8	0.8	1.4	23.0
3648	Lighting equipment, n.e.c.	E4	22	10	0.5	5.3	0.4	0.8	3.3	10.3	11.2	21.5	0.4	0.5	8.4
365	Radio and TV receiving equipment	E1	175	33	3.6	37.1	2.6	5.0	21.2	160.0	112.1	254.0	2.4	3.7	64.1
3651	Radio and TV receiving sets	—	43	10	1.5	12.9	1.1	2.1	8.7	46.8	60.0	89.5	0.7	2.3	22.8
3652	Phonograph records and prerecorded tape	E1	132	23	2.1	24.2	1.5	2.9	12.5	113.2	52.1	164.5	1.8	1.4	41.3
367	Electronic components and accessories	E1	176	51	7.1	76.6	5.2	9.8	45.2	137.3	87.6	221.9	9.4	7.7	102.1
3674	Semiconductors and related devices	E1	22	10	1.0	13.3	0.7	1.4	8.1	25.1	24.3	48.1	2.2	1.3	14.4
3677	Electronic coils and transformers	—	8	6	0.7	7.1	0.4	0.8	3.1	11.1	3.8	14.7	(D)	0.5	7.3
3678	Electronic connectors	—	8	5	1.9	18.1	1.4	2.5	11.3	29.4	14.4	42.5	2.1	(NA)	(NA)
3679	Electronic components, n.e.c.	E3	128	26	3.1	33.2	2.3	4.4	20.4	62.2	41.5	103.7	4.9	4.0	54.8
369	Miscellaneous electrical equipment and supplies	E1	93	45	6.7	94.5	3.9	7.3	38.4	235.9	142.4	383.4	12.5	3.9	82.3
3693	X-ray, electromedical, and electrotherapeutic apparatus	—	27	16	2.9	54.4	1.3	2.4	17.0	155.6	69.8	221.7	5.1	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	New York, N.Y.-N.J., SMSA—Con.														
36	Electric and electronic equipment—Con.														
369	Miscellaneous electrical equipment and supplies—Con.														
3699	Electrical equipment and supplies, n.e.c.----	E1	46	20	1.3	12.1	0.9	1.7	6.9	32.0	28.0	60.2	(D)	(NA)	(NA)
37	Transportation equipment ---	-	177	67	16.4	280.0	13.9	28.5	225.8	659.4	2 007.2	2 669.5	56.2	20.7	587.0
3713	Truck and bus bodies----	E4	17	8	0.3	4.0	0.3	0.6	2.8	6.6	7.9	14.3	0.1	0.4	5.4
3714	Motor vehicle parts and accessories-----	E2	62	14	1.1	12.4	0.9	1.9	8.3	27.0	30.6	57.2	1.1	1.4	22.1
3728	Aircraft equipment, n.e.c.-----	E3	18	5	0.5	7.3	0.3	0.7	4.3	13.6	5.3	19.6	0.3	(NA)	(NA)
3732	Boat building and repairing-----	E1	14	4	0.3	4.0	0.3	0.5	3.3	6.9	4.2	10.9	0.4	(NA)	(NA)
38	Instruments and related products-----	E1	478	166	20.1	260.3	12.3	24.2	124.2	521.8	426.9	931.4	25.3	22.5	368.4
3811	Engineering and scientific instruments --	-	34	13	2.2	36.6	1.1	2.2	15.4	61.5	28.9	92.4	2.3	2.9	52.9
382	Measuring and controlling devices-----	E1	80	41	3.6	48.2	2.1	4.0	21.2	103.1	64.9	162.1	6.0	2.7	34.9
3825	Instruments to measure electricity-----	-	27	15	1.8	29.1	1.0	1.9	11.8	64.2	43.2	103.2	1.7	1.1	19.3
3832	Optical instruments and lenses-----	-	37	11	0.8	10.5	0.5	1.0	5.1	22.9	9.8	32.4	0.6	0.6	11.5
384	Medical instruments and supplies-----	-	134	36	5.3	66.3	2.9	5.7	29.5	129.3	118.8	244.2	9.7	6.6	121.6
3842	Surgical appliances and supplies-----	E1	53	17	1.8	21.9	1.2	2.3	12.2	51.3	29.9	79.1	3.8	2.2	35.7
3843	Dental equipment and supplies-----	-	49	10	0.9	12.4	0.5	1.0	4.6	35.6	56.8	90.6	(D)	1.0	25.5
3851	Ophthalmic goods-----	E2	58	20	1.9	17.3	1.4	2.8	10.4	32.6	20.2	51.5	1.3	2.3	22.0
3873	Watches, clocks, and watchcases-----	-	61	25	4.6	55.3	3.2	6.4	30.7	105.4	144.0	242.4	1.8	5.4	91.2
39	Miscellaneous manufacturing industries ---	E1	2 656	613	52.7	531.3	40.6	73.7	318.7	1 204.2	1 461.4	2 637.2	38.1	61.1	905.8
391	Jewelry, silverware, and plated ware-----	E1	985	193	14.9	176.2	10.4	18.7	93.4	425.5	811.7	1 217.7	8.5	13.9	258.9
3911	Jewelry, precious metal -	E1	719	164	12.4	148.2	8.5	15.3	77.7	336.3	539.1	871.8	7.2	11.1	209.7
3914	Silverware and plated ware-----	E2	28	8	0.6	5.6	0.5	0.9	4.2	9.6	8.9	18.2	0.2	0.9	10.9
3915	Jewelers' materials and lapidary work-----	E1	238	21	1.9	22.4	1.4	2.5	11.6	79.6	263.7	327.7	1.2	1.9	38.3
394	Toys and sporting goods --	-	214	81	11.3	90.0	9.2	16.0	54.5	227.9	189.9	411.1	9.4	13.3	176.0
3944	Games, toys, and children's vehicles ----	-	74	28	6.3	55.1	4.9	8.9	30.5	147.9	102.2	245.9	7.2	5.6	92.9
3949	Sporting and athletic goods, n.e.c.-----	E1	42	16	1.2	9.6	0.9	1.7	6.3	19.2	31.7	50.9	0.9	2.3	33.7
395	Pens, pencils, office and art supplies-----	E1	104	32	3.0	30.8	2.2	4.5	19.5	71.3	69.7	139.5	2.6	3.4	53.8
3951	Pens and mechanical pencils-----	E2	32	14	1.1	9.0	0.9	1.8	6.4	24.3	19.2	43.2	0.8	1.0	15.0
3952	Lead pencils and art goods-----	-	19	8	0.9	9.6	0.6	1.2	5.4	21.3	25.5	45.6	(D)	1.1	16.7
3955	Carbon paper and inked ribbons-----	-	10	5	0.5	6.0	0.4	0.8	4.6	15.3	20.4	36.1	(D)	(NA)	(NA)
396	Costume jewelry and notions-----	E1	423	118	8.9	77.4	7.3	13.3	49.6	158.6	138.3	296.4	6.3	10.9	141.7
3961	Costume jewelry-----	E1	194	51	3.4	28.9	2.7	4.8	17.3	64.0	49.1	111.4	(D)	4.5	57.8
3962	Artificial flowers-----	-	46	14	1.0	8.7	0.9	1.6	5.7	17.9	22.2	39.9	(D)	(NA)	(NA)
3964	Needles, pins, and fasteners-----	E1	95	33	3.1	25.2	2.5	4.7	17.7	55.1	49.0	104.0	3.5	3.6	50.7
399	Miscellaneous manufactures-----	E2	905	183	13.7	147.0	10.6	19.7	94.6	302.6	242.6	544.3	10.9	18.6	262.8
3991	Brooms and brushes-----	E2	34	14	1.2	11.7	0.9	1.6	6.7	29.1	24.2	53.1	1.7	1.8	25.4
3993	Signs and advertising displays-----	E1	263	71	5.3	60.4	4.0	7.6	37.6	113.7	79.2	192.7	4.3	5.4	83.7
3995	Burial caskets-----	-	19	4	0.3	3.1	0.2	0.4	1.9	5.7	10.0	15.7	0.2	(NA)	(NA)
3999	Manufacturing industries, n.e.c.-----	E2	588	93	6.8	71.1	5.5	10.1	47.9	152.4	126.5	278.3	4.6	11.1	147.4
	Poughkeepsie SMSA-----	-	229	85	27.4	498.9	10.9	21.3	124.8	896.0	1 149.2	1 970.3	(D)	22.2	448.5
22	Textile mill products-----	-	3	3	0.4	3.8	0.3	0.7	2.9	6.5	3.3	9.8	(D)	(NA)	(NA)
226	Textile finishing, except wool-----	-	3	3	0.4	3.8	0.3	0.7	2.9	6.5	3.3	9.8	(D)	(NA)	(NA)
2262	Finishing plants, synthetics-----	-	3	3	0.4	3.8	0.3	0.7	2.9	6.5	3.3	9.8	(D)	(NA)	(NA)
23	Apparel and other textile products-----	E2	13	11	0.6	4.1	0.6	1.0	3.4	8.5	6.6	15.1	(D)	1.0	8.9

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Poughkeepsie SMSA—Con.														
25	Furniture and fixtures -----	-	7	4	0.4	3.6	0.3	0.5	2.4	6.4	5.4	11.9	(D)	(NA)	(NA)
	Rochester SMSA -----	-	1 316	467	144.4	2 390.1	81.7	158.3	1 129.4	6 732.4	3 083.9	9 735.1	335.0	142.2	4 390.6
20	Food and kindred products --	-	125	54	6.9	83.1	4.8	9.8	50.5	323.7	446.1	769.0	18.0	8.8	263.2
201	Meat products -----	-	9	5	0.5	5.5	0.4	0.7	4.1	27.0	50.8	77.5	(D)	0.9	15.2
202	Dairy products -----	E3	25	3	0.4	4.8	0.2	0.3	2.0	13.9	39.9	53.7	0.8	0.8	8.0
2026	Fluid milk -----	E3	19	2	0.3	4.0	0.1	0.2	1.3	11.1	32.0	43.1	(D)	0.7	7.3
203	Preserved fruits and vegetables -----	-	36	20	3.3	35.3	2.6	5.3	24.2	168.6	182.4	350.9	5.0	4.7	169.8
2033	Canned fruits and vegetables -----	-	19	17	1.9	19.9	1.5	3.1	12.4	92.6	108.0	200.6	3.2	2.3	39.2
205	Bakery products -----	E1	17	7	0.5	7.1	0.3	0.7	4.6	14.7	7.9	22.4	1.2	0.5	8.0
208	Beverages -----	-	17	9	1.5	23.0	0.8	1.7	10.7	61.9	126.1	188.3	9.0	1.4	45.7
2086	Bottled and canned soft drinks -----	-	8	4	0.4	6.1	0.1	0.2	1.3	17.0	26.5	43.6	(D)	0.5	8.6
209	Miscellaneous foods and kindred products -----	-	15	7	0.5	5.2	0.4	0.8	3.6	31.2	25.9	56.7	1.2	0.4	14.4
26	Paper and allied products ---	-	41	30	3.1	38.0	2.3	4.6	24.3	68.9	104.6	172.5	6.9	3.1	57.2
264	Miscellaneous converted paper products -----	-	22	13	1.8	23.2	1.3	2.7	14.4	42.8	58.9	100.2	5.5	1.7	34.3
2653	Corrugated and solid fiber boxes -----	-	9	8	0.6	7.1	0.4	0.8	4.6	11.5	21.6	33.0	0.9	0.6	9.9
27	Printing and publishing -----	-	217	53	6.9	95.1	3.9	7.0	48.6	188.1	95.7	280.4	14.0	6.8	127.7
2711	Newspapers -----	-	35	9	2.0	20.9	0.8	1.1	7.1	52.4	13.8	66.2	(D)	2.2	38.2
275	Commercial printing -----	-	119	23	2.2	36.2	1.6	3.0	22.4	57.6	50.9	107.0	4.5	2.8	55.5
2752	Commercial printing, lithographic -----	-	64	16	1.8	31.1	1.3	2.4	19.3	48.4	46.3	93.2	4.1	2.2	47.1
278	Blankbooks and bookbinding -----	-	9	4	0.3	3.3	0.2	0.4	2.1	4.8	1.7	6.5	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	40	14	2.4	34.3	1.1	2.3	13.0	134.3	92.5	227.4	(D)	2.1	76.2
283	Drugs -----	-	5	3	1.3	21.7	0.4	0.9	5.6	74.8	28.4	104.1	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	40	17	2.0	22.0	1.5	2.9	14.5	54.1	39.5	92.5	5.3	3.0	49.3
3079	Miscellaneous plastics products -----	-	35	17	1.9	21.6	1.5	2.9	14.2	53.2	38.7	90.9	5.2	(NA)	(NA)
32	Stone, clay, and glass products -----	-	57	18	3.0	37.2	2.2	4.2	25.5	84.9	57.1	143.3	4.4	2.2	42.2
327	Concrete, gypsum, and plaster products -----	E1	32	7	0.4	5.7	0.2	0.5	2.7	11.2	10.7	22.0	0.4	0.8	12.5
33	Primary metal industries ----	E1	25	12	0.9	12.0	0.7	1.4	8.4	24.0	33.0	56.8	1.4	1.0	18.0
3321	Gray iron foundries -----	E1	4	3	0.4	4.6	0.3	0.6	3.6	8.5	5.5	14.0	0.3	(NA)	(NA)
34	Fabricated metal products ---	-	148	59	7.0	98.5	5.4	10.9	66.8	238.4	180.3	378.5	15.8	7.2	144.9
342	Cutlery, hand tools, and hardware -----	-	10	5	0.8	8.5	0.6	1.2	4.9	21.4	15.0	35.9	(D)	1.2	20.5
344	Fabricated structural metal products -----	-	40	12	2.6	39.4	1.8	3.4	23.5	104.8	54.8	122.3	2.1	3.2	61.0
345	Screw machine products, bolts, etc. -----	-	35	19	1.1	15.2	0.9	2.0	11.3	30.1	17.3	47.4	1.7	0.9	18.9
346	Metal forgings and stampings -----	-	16	7	0.5	5.6	0.4	0.8	4.1	13.5	13.9	27.2	0.4	0.5	8.3
347	Metal services, n.e.c. -----	E1	20	6	0.4	3.9	0.3	0.6	2.7	5.8	3.2	9.0	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	22	6	0.5	7.5	0.4	0.9	5.1	18.9	16.9	35.5	0.9	0.3	5.5
3499	Fabricated metal products, n.e.c. -----	-	14	4	0.3	4.6	0.3	0.6	3.0	11.5	7.6	18.8	0.6	(NA)	(NA)
35	Machinery, except electrical -	-	261	76	16.4	285.1	11.7	23.9	187.9	563.4	285.4	821.8	55.8	13.8	310.6
353	Construction and related machinery -----	-	7	5	0.5	6.2	0.3	0.6	3.5	16.2	15.8	31.8	0.7	0.4	6.7
354	Metalworking machinery ---	-	94	31	5.2	87.3	3.9	7.8	58.6	148.6	48.9	190.8	(D)	4.9	90.3
3544	Special dies, tools, jigs, and fixtures -----	E3	68	21	1.0	13.7	0.8	1.7	10.2	21.5	7.9	30.0	2.3	1.0	17.7

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Rochester SMSA—Con.														
35	Machinery, except electrical—Con.														
355	Special industry machinery-----	-	27	10	1.2	19.7	0.7	1.5	10.3	40.6	32.9	67.6	0.8	0.9	14.6
3559	Special industry machinery, n.e.c.-----	-	12	5	0.8	14.1	0.5	1.0	7.2	30.1	27.9	52.2	0.4	(NA)	(NA)
356	General industrial machinery-----	-	29	9	1.9	27.1	0.9	1.7	12.0	65.4	37.3	103.2	1.4	1.2	24.6
3569	General industrial machinery, n.e.c.-----	-	15	6	1.6	22.8	0.7	1.4	9.6	54.5	31.2	86.1	1.1	(NA)	(NA)
357	Office and computing machines-----	-	11	6	0.9	11.8	0.5	1.0	5.4	38.5	10.5	46.9	1.6	(NA)	(NA)
36	Electric and electronic equipment-----	-	68	30	11.8	186.3	7.9	15.0	107.3	388.7	207.7	594.2	17.1	11.9	232.6
366	Communication equipment-----	-	10	9	5.5	82.6	2.6	4.1	26.0	133.6	58.4	200.5	5.7	6.3	106.0
38	Instruments and related products-----	-	72	38	65.2	1 194.5	33.0	63.2	523.1	4 481.5	1 405.9	5 882.0	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries ---	-	48	17	3.0	28.8	2.5	4.8	21.4	75.9	56.2	131.6	1.3	2.9	52.0
399	Miscellaneous manufactures-----	-	33	10	0.8	8.1	0.6	1.2	5.5	15.0	11.2	25.1	(D)	0.6	5.3
3999	Manufacturing industries, n.e.c.-----	-	16	6	0.6	6.4	0.5	0.9	4.5	11.9	9.5	20.1	0.4	(NA)	(NA)
--	Administrative and auxiliary --	-	30	18	10.2	223.3	-	-	-	-	-	-	-	(NA)	(NA)
	Syracuse SMSA-----	-	767	281	57.8	893.1	37.3	74.5	513.1	2 017.7	2 312.6	4 300.1	152.2	60.5	1 205.3
20	Food and kindred products --	-	86	35	6.3	94.0	4.4	8.2	62.3	420.7	600.3	1 014.7	39.8	4.3	110.8
201	Meat products-----	E3	13	4	0.3	3.3	0.2	0.4	2.0	6.4	30.4	35.3	(D)	(NA)	(NA)
202	Dairy products-----	-	24	10	0.8	9.1	0.4	0.8	4.4	30.4	102.0	131.9	(D)	0.9	23.8
2026	Fluid milk-----	-	14	5	0.4	4.6	0.2	0.3	1.7	14.3	49.4	63.7	(D)	0.5	11.5
205	Bakery products-----	-	14	3	0.6	8.0	0.3	0.5	4.0	19.9	12.8	32.7	0.1	0.7	17.4
208	Beverages-----	-	7	6	2.2	47.4	1.6	3.2	32.8	143.9	290.4	431.6	(D)	0.4	7.7
23	Apparel and other textile products-----	E1	15	1	0.5	3.9	0.4	0.6	3.0	5.6	2.2	7.8	0.1	0.8	6.8
24	Lumber and wood products--	-	42	9	0.8	7.2	0.6	1.2	4.9	10.3	21.5	31.3	1.6	(NA)	(NA)
243	Millwork, plywood, and structural members-----	-	10	2	0.3	3.1	0.2	0.4	1.9	3.2	11.9	14.9	(D)	(NA)	(NA)
26	Paper and allied products ---	-	24	20	2.3	33.5	1.8	3.9	23.0	73.6	114.0	187.8	8.1	2.9	44.6
265	Paperboard containers and boxes-----	-	13	11	1.3	17.7	0.9	2.1	11.9	30.3	42.0	72.0	(D)	1.8	21.8
2653	Corrugated and solid fiber boxes-----	-	5	4	0.5	7.8	0.4	0.8	4.9	15.4	24.7	39.9	(D)	0.6	9.8
27	Printing and publishing -----	E1	134	28	2.3	27.8	1.3	2.3	14.2	64.4	35.0	99.4	3.5	2.5	48.6
2711	Newspapers-----	-	23	7	0.8	9.8	0.3	0.5	3.3	31.0	11.5	42.5	(D)	0.9	24.6
275	Commercial printing-----	E1	63	8	0.6	8.2	0.5	0.8	5.4	13.9	14.8	28.6	1.7	(NA)	(NA)
278	Blankbooks and bookbinding-----	-	7	6	0.4	4.5	0.3	0.7	3.3	9.5	4.0	13.5	0.6	0.7	5.6
28	Chemicals and allied products-----	-	29	7	4.6	88.6	2.5	5.5	42.3	233.9	141.8	359.1	18.6	4.9	148.1
30	Rubber and miscellaneous plastics products-----	-	17	12	1.9	18.5	1.5	2.8	12.3	41.0	30.4	70.6	1.9	1.6	24.4
32	Stone, clay, and glass products-----	E1	35	12	1.6	21.1	1.3	2.8	15.7	44.4	27.6	70.8	(D)	1.6	25.1
33	Primary metal industries -----	-	30	21	4.6	71.6	3.5	7.0	53.3	140.6	479.0	618.4	9.8	4.8	97.2
332	Iron and steel foundries-----	-	5	4	0.4	5.2	0.4	0.7	3.8	11.8	6.0	17.7	1.0	0.6	6.8
3357	Nonferrous wire drawing and insulating -	-	3	3	0.4	4.1	0.3	0.6	3.0	5.4	10.1	16.2	(D)	(NA)	(NA)
336	Nonferrous foundries-----	-	11	9	1.1	13.7	0.8	1.5	10.0	24.0	21.8	45.1	(D)	1.2	16.3
3361	Aluminum foundries-----	-	7	6	0.9	12.3	0.7	1.3	9.0	21.9	19.3	40.6	(D)	(NA)	(NA)
34	Fabricated metal products---	-	84	34	4.1	62.9	3.3	6.4	45.0	139.4	105.8	245.4	10.5	3.4	76.9

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Syracuse SMSA—Con.														
34	Fabricated metal products—Con.														
344	Fabricated structural metal products-----	E1	32	16	0.9	11.6	0.6	1.2	7.6	21.7	21.0	42.4	0.8	1.1	18.4
3444	Sheet metal work-----	-	12	6	0.4	5.7	0.3	0.5	3.8	9.5	9.2	18.3	0.3	0.4	6.1
349	Miscellaneous fabricated metal products-----	E1	13	5	0.4	5.4	0.3	0.6	3.6	10.1	7.3	17.7	0.6	(NA)	(NA)
35	Machinery, except electrical	-	134	47	9.0	134.7	6.1	12.1	84.9	333.1	359.8	683.6	14.7	9.3	236.6
3544	Special dies, tools, jigs, and fixtures-----	E2	25	8	0.4	5.2	0.3	0.7	4.0	8.0	3.0	10.9	0.6	0.4	6.7
356	General industrial machinery-----	-	21	15	2.0	26.9	1.3	2.7	16.9	47.4	47.4	94.6	3.7	2.1	32.2
3564	Blowers and fans-----	-	3	3	0.4	5.3	0.3	0.6	2.8	8.9	7.4	16.2	(D)	0.4	8.0
3569	General industrial machinery, n.e.c.-----	E1	4	4	0.3	3.0	0.1	0.3	1.4	11.1	13.0	24.2	0.5	(NA)	(NA)
36	Electric and electronic equipment-----	-	36	19	10.2	165.8	5.2	10.5	69.0	304.3	156.6	459.1	(D)	13.3	246.5
364	Electric lighting and wiring equipment-----	-	6	5	3.9	52.7	2.5	5.0	37.1	113.4	54.2	163.6	5.0	(NA)	(NA)
38	Instruments and related products-----	-	16	8	1.2	12.9	0.9	2.1	9.3	34.1	14.3	47.2	1.8	0.9	15.9
39	Miscellaneous manufacturing industries ---	-	33	6	0.8	8.7	0.6	1.1	5.1	16.6	12.7	29.2	0.5	1.3	17.4
399	Miscellaneous manufactures-----	-	21	6	0.8	8.2	0.6	1.0	4.8	15.5	12.0	27.3	(D)	1.2	16.7
--	Administrative and auxiliary ---	-	15	11	3.1	57.6	-	-	-	-	-	-	-	(NA)	(NA)
	Utica-Rome SMSA-----		411	141	29.2	385.2	20.5	39.3	223.9	791.7	827.2	1 607.4	41.5	35.4	631.0
202	Dairy products-----	E1	22	6	0.4	3.8	0.3	0.5	2.5	4.3	45.9	49.7	0.6	0.5	12.9
22	Textile mill products-----	-	12	6	1.0	9.1	0.9	1.8	6.6	24.8	33.1	57.2	1.1	1.2	10.3
23	Apparel and other textile products-----	-	15	7	0.8	6.2	0.7	1.2	5.1	9.0	4.1	12.9	0.1	1.7	16.6
24	Lumber and wood products---	E2	32	5	0.4	3.3	0.3	0.6	2.4	5.7	7.1	12.6	0.6	0.4	3.8
25	Furniture and fixtures-----	-	11	5	0.9	9.5	0.7	1.3	6.6	16.8	12.8	29.8	1.4	0.9	15.3
26	Paper and allied products---	-	13	6	0.6	8.5	0.5	1.1	5.9	16.5	26.2	42.8	(D)	0.7	12.2
27	Printing and publishing-----	E1	51	14	1.0	10.5	0.6	0.9	4.8	21.2	9.2	30.5	2.6	1.0	15.8
2711	Newspapers-----	-	11	5	0.5	5.8	0.2	0.3	1.8	14.2	2.6	16.8	1.6	(NA)	(NA)
275	Commercial printing-----	E3	31	6	0.3	3.2	0.3	0.5	2.1	4.8	4.7	9.5	0.9	0.3	3.6
31	Leather and leather products-----	-	8	4	1.5	10.6	1.3	2.1	6.6	21.3	14.0	35.0	0.7	1.6	18.0
32	Stone, clay, and glass products-----	-	22	4	0.5	4.6	0.4	0.7	2.9	10.1	6.7	16.4	0.7	0.5	6.9
33	Primary metal industries----	-	15	12	4.2	61.6	3.2	6.4	44.8	124.8	295.0	414.7	9.9	4.3	96.9
335	Nonferrous rolling and drawing-----	-	8	7	3.8	54.9	2.8	5.7	40.3	108.5	268.4	371.9	8.2	(NA)	(NA)
3357	Nonferrous wire drawing and insulating---	-	4	4	1.7	23.4	1.3	2.7	17.2	57.2	99.8	152.4	(D)	(NA)	(NA)
34	Fabricated metal products---	-	31	12	4.3	58.8	3.5	7.1	44.6	137.6	79.7	213.6	6.9	3.8	73.0
344	Fabricated structural metal products-----	-	15	5	0.5	7.8	0.3	0.6	3.4	14.2	12.8	28.1	(D)	0.4	8.7
35	Machinery, except electrical---	-	64	21	5.3	84.3	3.1	5.8	37.7	172.8	87.4	259.5	5.3	9.2	185.1
37	Transportation equipment---	-	5	3	0.7	9.7	0.5	0.9	5.9	14.7	11.4	28.1	(D)	(NA)	(NA)
38	Instruments and related products-----	-	9	4	0.6	5.7	0.4	0.8	3.3	17.1	11.6	27.8	1.0	0.4	6.2
39	Miscellaneous manufacturing industries---	-	25	10	2.6	30.4	2.2	4.1	23.4	64.4	58.4	119.9	2.6	3.1	51.4

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
 (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Albany County -----	-	286	101	15.8	246.9	11.1	22.3	148.0	543.7	606.8	1 153.2	74.6	20.7	377.6
20	Food and kindred products --	-	40	18	2.6	35.6	1.5	3.4	19.3	71.7	174.7	244.8	(D)	3.4	91.7
22	Textile mill products -----	-	7	5	0.9	11.5	0.6	1.1	5.8	25.3	12.7	38.0	(D)	1.2	16.7
23	Apparel and other textile products -----	E1	17	9	1.1	8.3	0.9	1.8	5.9	15.8	23.4	38.8	(D)	1.4	13.1
26	Paper and allied products ---	-	6	4	0.8	12.9	0.6	1.4	9.3	24.5	33.5	57.5	(D)	0.9	15.4
27	Printing and publishing -----	-	71	12	2.6	37.7	1.0	1.9	13.1	87.1	27.2	113.4	(D)	2.9	54.6
28	Chemicals and allied products -----	-	14	5	0.5	9.8	0.3	0.7	5.0	63.7	77.2	139.7	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	20	7	2.6	41.6	1.9	3.8	28.9	82.3	74.0	164.6	(D)	4.7	99.6
34	Fabricated metal products ---	-	23	7	0.5	6.3	0.4	0.8	4.0	11.9	16.3	27.8	(D)	0.5	11.4
35	Machinery, except electrical --	E1	17	8	0.6	8.2	0.4	0.8	4.5	14.9	10.5	25.2	(D)	0.5	4.1
	Allegany County -----	-	47	12	3.4	46.2	2.2	4.5	27.9	109.4	114.7	230.5	4.2	3.7	63.4
	Bronx County -----	-	1 136	395	33.1	352.3	25.6	47.6	222.4	712.7	639.2	1 351.1	33.8	41.2	573.0
20	Food and kindred products --	E1	85	29	2.8	41.8	2.0	4.2	23.9	93.5	166.1	260.2	(D)	4.4	78.5
201	Meat products -----	E2	22	9	0.7	10.4	0.5	1.1	7.2	20.9	59.5	80.6	1.6	1.0	15.6
2013	Sausages and other prepared meats -----	E2	19	9	0.7	10.3	0.5	1.1	7.0	20.7	57.9	78.8	1.6	(NA)	(NA)
205	Bakery products -----	-	19	4	0.7	11.1	0.5	1.1	6.0	23.6	16.9	40.6	(D)	1.1	22.7
209	Miscellaneous foods and kindred products -----	-	18	7	0.7	9.4	0.5	1.1	5.9	26.2	46.4	73.0	(D)	1.2	21.8
239	Miscellaneous fabricated textile products -----	E1	47	13	1.2	9.2	1.0	1.9	6.8	14.6	18.3	33.1	0.3	1.7	16.7
25	Furniture and fixtures -----	E1	77	18	2.1	23.5	1.6	3.2	16.3	44.0	40.7	84.9	(D)	2.6	37.7
251	Household furniture -----	E3	34	6	0.6	5.3	0.5	0.9	3.5	8.5	10.3	18.8	0.4	0.8	8.5
26	Paper and allied products ---	E2	17	7	0.8	8.2	0.7	1.2	5.8	15.5	15.2	30.7	(D)	0.7	9.4
264	Miscellaneous converted paper products -----	E2	11	4	0.5	5.7	0.4	0.8	4.0	10.6	11.2	21.9	(D)	0.5	6.9
27	Printing and publishing -----	-	89	10	2.2	30.4	1.5	2.5	20.2	68.3	16.9	86.5	(D)	2.5	46.8
275	Commercial printing -----	-	42	2	1.2	19.6	1.0	1.7	15.8	44.9	9.8	56.0	(D)	1.4	28.6
30	Rubber and miscellaneous plastics products -----	E2	46	23	1.8	16.1	1.5	2.8	11.1	27.5	25.2	52.4	(D)	2.0	24.4
3079	Miscellaneous plastics products -----	E2	43	21	1.7	15.5	1.5	2.8	10.7	26.7	24.7	51.1	(D)	(NA)	(NA)
31	Leather and leather products -----	-	18	12	1.3	10.8	1.1	2.1	6.8	19.1	18.6	37.6	(D)	1.3	14.7
346	Metal forgings and stampings -----	-	15	7	1.5	17.5	1.1	2.3	10.9	42.9	41.8	84.7	1.8	0.6	7.0
347	Metal services, n.e.c. -----	E4	22	10	0.5	4.1	0.4	0.7	2.9	6.6	3.5	10.1	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	39	17	2.5	34.7	1.6	3.2	17.0	77.4	47.6	126.9	(D)	3.8	67.5
39	Miscellaneous manufacturing industries -----	E1	76	29	3.0	25.4	2.5	4.4	16.4	58.0	52.1	107.8	(D)	2.6	37.0
--	Administrative and auxiliary --	-	11	4	0.5	8.0	-	-	-	-	-	-	-	(NA)	(NA)
	Broome County -----	-	276	108	30.7	433.7	18.0	34.8	194.9	811.1	1 117.9	1 880.3	(D)	29.6	570.7
20	Food and kindred products --	-	27	11	1.0	10.6	0.7	1.3	6.2	37.0	75.6	113.2	(D)	(NA)	(NA)
35	Machinery, except electrical --	-	39	13	3.5	33.0	2.9	5.4	23.0	54.0	42.9	95.9	(D)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Broome County—Con.														
—	Administrative and auxiliary --	—	11	9	0.7	8.9	—	—	—	—	—	—	—	(NA)	(NA)
	Cattaraugus County -----		132	55	9.1	108.8	6.5	12.5	70.9	280.0	236.9	514.7	10.2	8.6	137.8
20	Food and kindred products --	—	16	5	0.5	5.0	0.3	0.6	2.6	20.3	39.3	59.3	(D)	(NA)	(NA)
24	Lumber and wood products --	—	21	9	0.7	6.1	0.6	1.1	4.6	12.0	15.4	26.6	(D)	0.5	6.8
25	Furniture and fixtures -----	—	5	4	0.6	5.2	0.5	1.0	3.6	12.2	12.6	24.2	(D)	0.5	7.3
34	Fabricated metal products ---	—	15	7	0.8	8.3	0.7	1.5	7.0	18.0	21.1	39.0	(D)	0.7	9.9
342	Cutlery, hand tools, and hardware -----	—	5	4	0.7	6.8	0.6	1.3	5.9	13.4	19.4	32.8	(D)	0.5	6.7
36	Electric and electronic equipment -----	—	5	5	1.5	14.0	1.2	2.5	11.0	28.8	17.5	44.0	(D)	(NA)	(NA)
	Cayuga County -----		104	33	5.8	68.3	3.8	7.1	36.5	126.1	157.4	287.2	9.0	6.4	119.3
20	Food and kindred products --	E1	12	4	0.5	4.4	0.3	0.5	1.9	8.5	16.6	24.9	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	—	7	5	0.8	8.7	0.5	0.9	3.9	15.5	12.1	27.7	(D)	0.7	10.8
3079	Miscellaneous plastics products -----	—	7	5	0.8	8.7	0.5	0.9	3.9	15.5	12.1	27.7	(D)	(NA)	(NA)
	Chautauqua County -----		299	106	16.6	215.6	12.0	24.0	145.8	493.8	471.3	960.7	51.8	17.4	267.9
20	Food and kindred products --	—	41	19	2.4	28.4	1.6	3.4	17.3	150.9	194.7	346.8	(D)	2.2	36.1
203	Preserved fruits and vegetables -----	—	9	7	1.1	12.1	0.8	1.7	8.4	45.2	104.5	151.0	1.5	1.0	16.2
25	Furniture and fixtures -----	—	36	18	2.0	18.4	1.6	3.2	14.1	37.5	25.9	63.2	(D)	2.1	29.7
251	Household furniture -----	—	19	12	1.4	11.7	1.2	2.3	9.2	22.6	18.0	40.9	(D)	1.6	21.3
27	Printing and publishing -----	—	22	6	0.9	12.8	0.7	1.4	9.5	27.2	31.3	57.9	(D)	0.7	9.4
33	Primary metal industries -----	—	13	7	1.8	34.4	1.5	3.0	28.5	64.1	68.3	132.2	(D)	1.6	22.4
34	Fabricated metal products ---	—	39	16	2.6	32.3	2.1	4.1	24.1	64.5	32.8	96.1	(D)	3.6	59.7
342	Cutlery, hand tools, and hardware -----	—	7	4	1.3	16.0	1.1	2.1	12.5	35.5	14.8	49.4	(D)	2.3	38.6
344	Fabricated structural metal products -----	—	12	5	0.7	8.6	0.4	0.9	5.5	14.5	7.7	22.3	0.6	0.9	13.7
35	Machinery, except electrical --	—	50	16	2.7	39.0	1.8	3.6	24.3	67.5	34.8	99.8	(D)	3.1	51.7
36	Electric and electronic equipment -----	—	7	4	0.5	4.7	0.4	0.7	3.1	11.2	9.8	20.8	(D)	0.6	7.5
	Chemung County (Coextensive with Elmira, N.Y., SMSA; see table 6.)														
	Chenango County -----		84	27	5.6	66.0	3.9	7.2	37.4	117.2	114.2	231.8	13.6	5.5	115.5
	Clinton County -----		79	25	3.7	45.4	2.7	5.3	29.5	239.0	160.9	390.7	9.4	3.0	136.8
26	Paper and allied products ---	—	6	3	1.2	15.9	1.0	2.1	13.0	31.5	47.1	76.0	(D)	1.3	21.2
	Columbia County -----		86	31	2.7	27.6	2.1	4.0	17.6	67.1	64.3	130.0	3.5	2.9	50.2
	Cortland County -----		54	24	5.5	58.7	4.0	7.5	37.4	117.7	126.6	251.0	7.3	6.2	89.9
35	Machinery, except electrical --	—	8	5	2.9	33.0	2.1	4.1	21.5	82.0	39.7	123.3	(D)	(NA)	(NA)
	Delaware County -----		74	22	5.8	64.4	4.0	7.9	39.8	140.5	144.6	280.1	6.5	5.6	85.4
20	Food and kindred products --	E1	11	3	0.5	5.7	0.3	0.6	3.9	15.5	81.3	95.5	(D)	0.5	10.2

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Delaware County—Con.														
27	Printing and publishing -----	-	6	3	0.5	4.7	0.3	0.7	2.8	9.5	11.2	20.5	(D)	(NA)	(NA)
	Dutchess County (Coextensive with Poughkeepsie, N.Y., SMSA; see table 6.)														
	Erie County -----	-	1 405	500	108.8	1 775.3	79.4	157.6	1 212.1	3 209.1	4 425.3	7 644.2	326.1	119.9	2 251.0
20	Food and kindred products --	-	145	59	7.6	100.3	5.1	10.3	62.7	360.6	603.4	962.9	(D)	9.5	235.0
201	Meat products -----	E2	25	9	0.8	10.1	0.5	1.1	6.2	17.1	64.6	81.7	0.6	(NA)	(NA)
2013	Sausages and other prepared meats -----	E1	16	8	0.7	8.9	0.5	0.9	5.4	17.0	47.2	64.0	0.5	(NA)	(NA)
202	Dairy products -----	-	26	8	0.8	11.3	0.4	0.8	4.5	30.7	122.3	152.2	(D)	(NA)	(NA)
26	Paper and allied products --	-	41	29	2.8	33.2	2.2	4.0	22.0	58.3	66.5	125.7	(D)	2.6	45.8
264	Miscellaneous converted paper products -----	-	15	11	0.9	10.7	0.7	1.4	6.7	18.5	23.6	43.1	(D)	0.9	14.4
281	Industrial inorganic chemicals -----	-	10	5	0.5	8.7	0.3	0.7	5.2	33.0	23.8	56.3	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	62	17	2.4	33.2	1.8	3.6	22.9	64.9	66.0	129.3	(D)	2.5	38.2
34	Fabricated metal products --	-	175	65	11.8	208.9	9.7	20.2	162.7	403.2	335.6	732.5	(D)	13.2	282.4
342	Cutlery, hand tools, and hardware -----	-	11	6	1.8	22.6	1.4	2.8	15.8	43.7	27.5	69.4	(D)	(NA)	(NA)
344	Fabricated structural metal products -----	-	62	23	2.3	32.9	1.6	3.2	21.2	65.7	53.9	119.8	(D)	1.7	31.7
39	Miscellaneous manufacturing industries -----	-	67	18	3.8	42.8	2.9	5.5	26.5	60.1	65.6	126.0	(D)	(NA)	(NA)
--	Administrative and auxiliary --	-	42	22	2.1	48.3	-	-	-	-	-	-	-	(NA)	(NA)
	Essex County -----	-	51	9	1.6	23.2	1.3	2.5	17.3	63.6	62.7	124.0	5.7	1.6	31.3
	Fulton County -----	-	164	68	7.1	64.5	5.8	11.5	44.8	148.4	176.1	317.3	(D)	6.7	89.5
22	Textile mill products -----	-	14	6	1.1	8.7	0.9	2.0	6.6	23.7	19.2	43.8	(D)	1.0	13.2
31	Leather and leather products -----	-	76	41	3.8	33.0	3.2	6.0	25.2	58.3	88.9	146.7	(D)	3.3	35.8
	Genesee County -----	-	87	39	5.3	67.5	3.8	7.5	40.9	122.0	185.3	308.3	10.6	6.8	90.6
20	Food and kindred products --	-	13	8	0.6	6.9	0.5	1.1	4.5	18.8	79.1	96.7	(D)	0.6	9.7
32	Stone, clay, and glass products -----	-	7	5	1.3	16.6	0.7	1.6	8.7	28.7	20.3	46.6	(D)	1.4	26.9
35	Machinery, except electrical --	-	16	4	0.8	12.0	0.6	1.0	7.1	20.6	25.1	46.9	(D)	0.8	14.9
	Greene County -----	-	46	19	2.0	21.0	1.6	3.2	14.6	42.9	45.6	85.9	1.8	1.6	28.1
	Herkimer County -----	-	97	33	7.4	99.0	5.6	11.1	57.5	229.2	127.2	361.1	11.7	12.0	189.2
	Jefferson County -----	-	57	32	5.6	69.7	4.5	8.8	51.6	154.5	274.6	432.5	7.6	6.3	100.4
26	Paper and allied products --	-	9	7	1.4	21.6	1.1	2.5	17.5	49.1	97.7	146.7	(D)	1.4	30.6
36	Electric and electronic equipment -----	-	5	3	0.9	7.8	0.7	1.3	5.7	12.5	13.1	25.4	(D)	(NA)	(NA)
	Kings County -----	-	4 201	1 466	118.4	1 192.0	96.3	176.7	825.0	2 621.3	2 793.9	5 358.7	116.7	165.8	2 536.3
20	Food and kindred products --	E1	270	91	9.6	128.2	6.6	12.9	77.3	354.7	735.7	1 088.1	30.4	17.8	485.5
201	Meat products -----	E2	36	10	0.9	15.1	0.8	1.7	12.8	29.7	100.6	131.4	1.0	1.9	37.1
2013	Sausages and other prepared meats -----	-	25	8	0.8	13.1	0.7	1.4	11.1	25.5	82.7	109.4	(D)	(NA)	(NA)
203	Preserved fruits and vegetables -----	E2	23	14	0.6	6.1	0.4	0.8	3.6	12.4	25.0	37.4	0.7	0.6	12.3
205	Bakery products -----	E2	78	20	3.0	37.6	1.8	3.3	20.4	69.9	58.3	128.2	(D)	3.3	55.7

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Kings County—Con.														
20	Food and kindred products—Con.														
206	Sugar and confectionery products	—	26	13	2.4	32.3	1.7	3.4	20.4	111.5	265.7	376.2	(D)	2.7	69.2
208	Beverages	E1	32	8	1.0	14.8	0.6	1.2	7.7	48.2	59.1	106.9	1.0	6.5	221.2
209	Miscellaneous foods and kindred products	—	51	20	1.2	14.5	0.9	1.8	8.3	60.0	176.1	234.4	1.9	1.8	55.4
2099	Food preparations, n.e.c.	—	26	8	0.6	7.3	0.4	0.9	4.0	18.3	40.4	58.1	1.0	(NA)	(NA)
22	Textile mill products	E4	375	158	9.4	78.9	8.5	16.2	63.1	130.7	140.6	271.2	6.2	14.9	172.5
23	Apparel and other textile products	E2	1 056	474	29.0	210.8	25.8	44.4	163.8	383.3	337.0	719.1	10.7	39.8	363.9
2321	Men's and boys' shirts and nightwear	E1	18	9	0.7	4.7	0.6	1.0	3.6	8.6	13.7	22.4	0.1	(NA)	(NA)
2329	Men's and boys' clothing, n.e.c.	E1	25	12	0.9	6.9	0.8	1.6	5.2	12.3	10.9	23.5	(D)	(NA)	(NA)
2337	Women's and misses' suits and coats	E1	112	73	3.5	26.1	3.3	5.5	22.2	42.3	20.2	62.2	0.4	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	E2	78	37	2.6	18.5	2.3	3.6	13.6	41.9	46.7	88.5	0.7	(NA)	(NA)
234	Women's and children's undergarments	E1	59	34	1.9	13.3	1.7	3.2	10.3	22.3	22.2	46.6	0.3	2.4	27.1
2341	Women's and children's underwear	E2	46	27	1.5	9.7	1.3	2.5	8.0	17.2	7.5	24.5	(D)	(NA)	(NA)
2361	Children's dresses and blouses	E1	21	11	0.9	6.5	0.8	1.4	5.1	12.5	13.4	24.9	0.3	(NA)	(NA)
2392	House furnishings, n.e.c.	E2	77	22	2.0	15.8	1.6	2.9	10.0	25.9	46.1	71.9	0.7	(NA)	(NA)
2395	Pleating and stitching	E3	54	20	1.0	9.1	0.9	1.5	6.2	15.6	22.9	38.4	0.4	(NA)	(NA)
24	Lumber and wood products	E3	100	15	1.1	10.5	1.0	1.8	8.1	18.7	15.2	33.8	1.3	2.0	22.1
25	Furniture and fixtures	E2	224	63	4.6	47.7	3.7	7.1	32.9	84.7	71.5	154.8	4.7	6.8	90.0
251	Household furniture	E4	123	27	1.7	14.9	1.4	2.7	10.8	27.0	29.0	55.6	(D)	3.2	34.5
2511	Wood household furniture	E1	47	12	0.7	5.9	0.6	1.2	4.6	10.8	9.8	20.3	0.3	(NA)	(NA)
252	Office furniture	E2	14	9	1.1	11.9	0.8	1.6	7.2	23.3	13.0	35.5	(D)	0.9	17.6
2522	Metal office furniture	E1	8	7	1.0	10.6	0.7	1.4	6.2	21.2	12.0	32.2	(D)	(NA)	(NA)
254	Partitions and fixtures	E1	67	22	1.6	18.7	1.3	2.5	13.4	28.8	24.5	53.4	(D)	2.2	33.2
2541	Wood partitions and fixtures	E1	41	14	1.1	13.2	0.9	1.6	9.6	19.6	15.8	35.4	(D)	(NA)	(NA)
2542	Metal partitions and fixtures	E2	26	8	0.5	5.5	0.4	0.9	3.8	9.3	8.8	18.0	0.2	(NA)	(NA)
26	Paper and allied products	E2	137	64	5.2	59.0	4.1	8.1	40.1	117.4	141.1	257.9	7.9	7.7	108.9
2645	Die-cut paper and board	E1	19	10	0.9	10.9	0.7	1.4	7.6	23.5	26.1	49.3	0.4	(NA)	(NA)
2651	Folding paperboard boxes	E4	19	8	0.5	6.1	0.4	0.8	4.5	10.7	8.3	19.0	0.3	(NA)	(NA)
2652	Setup paperboard boxes	—	12	10	0.6	4.6	0.5	0.9	3.3	7.5	5.8	13.2	0.1	(NA)	(NA)
2653	Corrugated and solid fiber boxes	E3	18	10	0.7	8.6	0.6	1.1	5.5	14.2	18.5	32.6	(D)	(NA)	(NA)
27	Printing and publishing	—	272	47	5.2	68.6	4.0	7.2	51.6	149.6	97.0	245.6	3.8	7.9	138.2
275	Commercial printing	E2	172	21	1.7	21.9	1.4	2.6	15.7	39.3	32.3	71.4	2.3	1.9	30.9
2752	Commercial printing, lithographic	—	50	8	0.6	9.6	0.5	1.0	7.2	15.6	13.4	29.1	(D)	(NA)	(NA)
278	Blankbooks and bookbinding	—	32	12	1.0	8.9	0.9	1.7	6.9	17.7	12.0	29.7	0.6	1.9	30.2
2789	Bookbinding and related work	—	23	6	0.5	5.6	0.5	1.0	4.6	11.4	7.5	18.9	0.4	(NA)	(NA)
28	Chemicals and allied products	—	142	41	5.2	64.3	4.1	7.7	41.3	312.5	191.2	495.5	7.4	6.0	280.4
284	Soaps, cleaners, and toilet goods	E1	53	15	1.6	16.0	1.1	2.2	8.0	45.9	45.8	91.1	(D)	1.4	26.8
2844	Toilet preparations	E1	17	5	0.8	7.1	0.6	1.1	3.2	21.7	15.8	37.1	(D)	(NA)	(NA)
2851	Paints and allied products	E1	40	11	0.7	9.0	0.5	0.9	4.9	29.8	32.0	61.0	0.6	(NA)	(NA)
286	Industrial organic chemicals	—	7	4	0.8	11.5	0.5	1.2	5.8	43.0	46.0	86.9	1.6	0.5	10.3
30	Rubber and miscellaneous plastics products	E1	148	48	4.2	45.7	3.4	6.5	30.9	90.3	118.6	207.4	10.3	4.8	74.9
3079	Miscellaneous plastics products	E1	133	47	4.1	43.9	3.3	6.3	29.7	86.0	113.9	198.4	10.2	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972		
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital ex- pendit- ures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Kings County—Con.														
31	Leather and leather products -----	E3	89	43	4.3	30.8	3.9	6.5	23.1	58.2	51.2	108.9	(D)	5.7	51.6
314	Footwear, except rubber ---	-	16	8	1.0	6.9	0.9	1.5	5.3	13.1	11.7	24.7	(D)	2.2	19.1
3161	Luggage -----	E3	15	9	1.1	8.6	1.0	1.6	6.4	17.9	14.9	32.6	(D)	(NA)	(NA)
317	Handbags and other personal leather goods ---	E3	35	21	2.0	13.0	1.8	3.0	9.8	23.1	19.5	42.3	(D)	2.3	21.2
3171	Women's handbags and purses -----	E3	26	16	1.5	10.1	1.4	2.5	7.9	16.8	16.1	32.9	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	E2	95	18	1.8	19.8	1.5	2.9	14.0	42.2	41.7	83.3	4.8	2.6	38.8
3231	Products of purchased glass -----	E2	39	12	1.1	11.7	0.9	1.7	8.2	24.3	21.9	46.0	3.5	(NA)	(NA)
33	Primary metal industries -----	E1	56	24	1.9	23.5	1.4	2.7	15.7	42.4	112.8	156.9	1.5	2.4	40.8
34	Fabricated metal products ---	E2	387	113	9.1	99.4	7.3	13.9	68.6	196.8	162.2	353.8	8.5	12.5	184.8
342	Cutlery, hand tools, and hardware -----	-	21	8	1.4	16.6	1.1	2.0	11.6	44.3	23.0	65.0	(D)	1.8	32.3
3429	Hardware, n.e.c. -----	-	17	6	1.2	15.0	0.9	1.7	10.5	39.7	19.8	57.7	1.9	(NA)	(NA)
344	Fabricated structural metal products -----	E2	118	21	2.2	24.4	1.6	3.1	16.6	41.5	38.5	80.3	(D)	3.6	51.6
346	Metal forgings and stampings -----	E1	46	22	1.2	13.9	1.0	2.0	9.6	27.0	27.7	54.1	(D)	1.9	27.4
347	Metal services, n.e.c. -----	E2	74	23	1.8	15.1	1.5	2.8	11.0	27.3	13.1	40.1	(D)	1.6	18.4
3471	Plating and polishing -----	E2	65	22	1.6	14.1	1.4	2.7	10.3	26.0	12.2	37.8	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	E1	100	28	2.1	23.0	1.6	3.1	15.1	44.0	42.3	84.5	(D)	2.7	38.4
3499	Fabricated metal products, n.e.c. -----	E3	55	13	0.9	8.6	0.8	1.4	5.9	15.4	12.8	27.8	(D)	(NA)	(NA)
35	Machinery, except electrical --	E1	225	42	4.8	63.3	3.3	6.0	34.8	124.6	127.5	248.6	4.4	5.8	96.3
354	Metalworking machinery ---	E3	59	7	0.5	6.4	0.4	0.7	4.3	10.6	5.0	15.4	(D)	(NA)	(NA)
355	Special industry machinery --	E1	31	10	1.3	19.0	0.8	1.5	9.8	32.2	23.9	54.1	1.0	1.1	20.6
356	General industrial machinery -----	E2	31	11	0.6	7.8	0.4	0.8	5.0	16.1	11.5	26.7	0.8	0.8	14.3
36	Electric and electronic equipment -----	E1	160	54	8.2	83.1	6.0	11.1	52.5	211.9	182.0	361.7	5.0	11.2	167.1
364	Electric lighting and wiring equipment -----	-	66	25	4.6	48.1	3.5	6.4	30.2	115.7	95.0	198.6	3.2	5.5	84.5
3645	Residential lighting fixtures -----	E1	47	14	1.0	10.4	0.8	1.5	7.0	21.9	17.5	40.1	0.4	(NA)	(NA)
365	Radio and TV receiving equipment -----	-	12	5	1.0	8.4	0.7	1.4	5.3	39.0	46.7	68.2	0.3	1.6	17.2
369	Miscellaneous electrical equipment and supplies --	E4	20	8	0.6	5.8	0.5	0.8	4.0	14.8	10.9	24.3	(D)	0.6	10.9
39	Miscellaneous manufacturing industries -----	E1	324	117	8.0	71.9	6.7	11.7	49.0	159.8	148.9	307.4	4.9	11.9	145.3
394	Toys and sporting goods ---	E1	91	37	2.9	21.5	2.6	4.0	14.3	58.8	58.2	116.2	1.5	5.7	62.8
3944	Games, toys, and children's vehicles -----	E2	18	9	0.6	5.0	0.5	0.8	3.3	15.5	12.6	28.0	0.4	(NA)	(NA)
395	Pens, pencils, office and art supplies -----	E3	26	9	0.6	5.7	0.5	1.0	4.0	14.7	13.2	27.8	0.3	0.8	11.1
3964	Needles, pins, and fasteners -----	E1	12	4	0.5	3.6	0.4	0.8	2.9	7.0	4.9	11.9	0.2	(NA)	(NA)
399	Miscellaneous manufactures -----	E1	139	50	3.0	32.4	2.5	4.6	22.3	61.4	48.1	109.2	2.5	3.8	46.5
3993	Signs and advertising displays -----	-	32	9	0.7	7.8	0.6	1.2	5.4	12.0	7.7	19.7	0.5	(NA)	(NA)
3999	Manufacturing industries, n.e.c. -----	E1	89	31	1.8	19.3	1.5	2.7	13.4	37.2	26.9	63.8	0.7	(NA)	(NA)
--	Administrative and auxiliary --	-	13	7	0.6	8.4	-	-	-	-	-	-	-	(NA)	(NA)
	Lewis County -----	-	34	12	1.7	20.7	1.3	2.7	14.8	51.8	104.8	156.8	4.7	2.0	30.7
26	Paper and allied products ---	-	5	5	0.8	11.5	0.6	1.2	8.1	22.1	41.7	63.8	(D)	0.9	17.2
	Livingston County -----	-	56	25	3.9	46.1	3.1	5.0	32.1	158.3	106.2	227.0	4.9	4.3	107.0
27	Printing and publishing -----	-	13	6	0.6	6.6	0.4	0.8	3.7	12.5	10.4	22.9	0.7	0.5	8.3
	Madison County -----	-	64	20	1.7	20.1	1.1	2.1	10.4	34.0	88.3	121.5	3.2	2.0	28.4

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977											1972		
			E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Monroe County -----	-	968	342	126.2	2 182.5	68.1	131.6	994.0	6 171.1	2 555.8	8 689.8	309.2	124.5	4 016.1	
20	Food and kindred products --	-	69	28	3.7	49.6	2.3	4.7	28.5	188.5	268.7	457.3	12.6	5.1	157.2	
208	Beverages -----	-	13	5	1.3	19.4	0.6	1.4	9.2	50.7	94.9	146.2	8.2	1.1	36.3	
23	Apparel and other textile products -----	-	23	6	2.9	24.6	2.6	4.2	20.2	40.6	17.2	57.6	(D)	3.9	49.7	
265	Paperboard containers and boxes -----	-	11	11	0.6	7.8	0.5	1.0	5.0	14.5	21.3	35.9	0.8	0.7	10.7	
27	Printing and publishing -----	-	172	38	5.7	83.8	3.3	5.7	42.6	166.6	80.6	243.8	12.8	5.8	113.3	
275	Commercial printing -----	-	102	18	1.8	32.2	1.3	2.4	19.7	50.5	46.1	95.2	4.1	(NA)	(NA)	
30	Rubber and miscellaneous plastics products -----	E1	28	11	0.9	10.7	0.7	1.3	7.2	22.7	13.0	35.5	1.8	0.8	12.2	
33	Primary metal industries -----	E1	19	8	0.5	7.2	0.4	0.8	4.7	15.1	27.0	41.9	1.1	(NA)	(NA)	
34	Fabricated metal products ---	-	124	53	5.5	76.7	4.2	8.5	50.5	158.6	135.8	292.0	15.0	5.8	102.4	
3451	Screw machine products -----	-	26	15	0.9	11.7	0.7	1.6	8.7	20.2	13.3	33.5	(D)	(NA)	(NA)	
35	Machinery, except electrical --	-	200	60	14.5	260.1	10.3	21.3	171.5	508.7	248.4	729.5	54.3	12.4	275.6	
3544	Special dies, tools, jigs, and fixtures -----	E3	62	19	0.9	12.8	0.8	1.6	9.5	19.8	7.4	27.8	(D)	(NA)	(NA)	
355	Special industry machinery -	-	20	8	1.1	17.5	0.7	1.3	9.3	36.1	29.8	60.0	0.6	(NA)	(NA)	
36	Electric and electronic equipment -----	-	53	22	10.6	175.5	6.9	13.1	100.3	370.8	198.6	568.0	16.0	11.1	223.6	
367	Electronic components and accessories -----	E1	21	5	0.6	6.1	0.5	1.0	3.8	15.9	6.7	22.1	1.2	0.6	7.9	
399	Miscellaneous manufactures -----	-	24	6	0.5	5.6	0.4	0.7	3.5	9.8	6.3	16.2	(D)	(NA)	(NA)	
-	Administrative and auxiliary --	-	25	16	9.7	215.3	-	-	-	-	-	-	-	(NA)	(NA)	
	Montgomery County -----	-	89	47	7.7	74.7	5.5	10.3	45.0	144.4	189.1	331.5	16.8	7.8	115.2	
39	Miscellaneous manufacturing industries -----	-	10	7	1.2	9.9	1.0	2.0	6.5	25.2	28.9	52.5	(D)	(NA)	(NA)	
	Nassau County -----	-	2 448	636	92.1	1 338.9	55.3	111.6	661.4	2 702.6	2 084.1	4 773.4	117.0	93.4	1 618.5	
20	Food and kindred products --	E2	69	11	1.0	10.6	0.6	1.2	5.8	28.0	42.2	70.1	1.4	1.5	45.2	
22	Textile mill products -----	E2	57	17	1.8	19.6	1.5	2.9	12.0	38.1	63.6	99.6	1.4	2.1	51.8	
23	Apparel and other textile products -----	E1	185	67	4.2	31.9	3.7	6.5	24.1	62.4	76.8	140.3	1.9	4.4	56.6	
2339	Women's and misses' outerwear, n.e.c. -----	-	14	9	0.8	7.5	0.7	1.3	5.0	16.6	38.4	56.1	0.3	(NA)	(NA)	
25	Furniture and fixtures -----	E2	73	14	1.1	10.9	0.8	1.7	7.4	21.3	14.8	35.9	(D)	1.6	21.8	
251	Household furniture -----	E3	36	5	0.5	4.3	0.4	0.8	3.1	9.1	6.4	15.4	(D)	(NA)	(NA)	
254	Partitions and fixtures -----	E1	21	7	0.5	5.4	0.3	0.7	3.4	10.0	6.6	16.6	(D)	(NA)	(NA)	
26	Paper and allied products ---	E1	56	26	3.3	38.0	2.5	4.9	25.1	72.0	86.7	158.2	5.7	2.8	39.3	
264	Miscellaneous converted paper products -----	E1	43	20	2.2	23.6	1.7	3.3	15.3	48.3	60.4	108.0	4.8	1.9	27.0	
2649	Converted paper products, n.e.c. -----	E1	14	6	0.5	5.8	0.4	0.8	3.9	13.9	18.2	31.6	1.0	(NA)	(NA)	
265	Paperboard containers and boxes -----	-	13	5	1.1	14.4	0.9	1.5	9.8	23.7	26.3	50.2	1.0	0.9	12.2	
2653	Corrugated and solid fiber boxes -----	-	7	3	0.5	7.1	0.4	0.8	4.9	11.3	14.1	25.2	(D)	(NA)	(NA)	
273	Books -----	E2	51	15	1.0	10.9	0.4	0.9	4.1	31.7	21.9	52.2	(D)	(NA)	(NA)	
2731	Book publishing -----	E2	35	10	0.7	7.6	0.2	0.4	1.5	25.2	17.2	41.4	(D)	(NA)	(NA)	
2741	Miscellaneous publishing -----	-	34	9	0.7	7.1	0.4	0.8	2.7	16.6	7.7	24.2	(D)	(NA)	(NA)	
275	Commercial printing -----	E1	264	31	2.7	36.4	2.2	4.3	27.3	69.4	54.9	125.1	3.3	2.7	43.5	

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Nassau County—Con.														
275	Commercial printing—Con.														
2751	Commercial printing, letterpress	E2	135	12	0.9	10.6	0.7	1.3	7.1	19.5	17.0	36.4	0.9	(NA)	(NA)
2752	Commercial printing, lithographic	E1	119	18	1.7	24.7	1.5	2.8	19.5	47.4	36.9	85.2	2.4	(NA)	(NA)
28	Chemicals and allied products	-	74	29	3.3	44.9	1.8	3.2	18.7	143.9	169.4	308.5	(D)	3.1	97.2
283	Drugs	-	22	14	1.9	24.6	0.8	1.5	7.9	68.1	52.0	119.6	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products	E1	109	33	2.5	26.9	2.0	3.9	16.9	62.0	72.5	134.3	3.6	2.4	40.2
3079	Miscellaneous plastics products	E1	100	33	2.4	26.4	1.9	3.8	16.5	60.8	71.4	132.1	3.5	(NA)	(NA)
33	Primary metal industries	E2	33	12	1.1	14.4	0.9	1.8	9.7	31.1	54.3	84.2	1.7	1.0	19.3
34	Fabricated metal products	E1	245	73	6.6	81.9	5.2	10.4	55.1	171.1	151.4	320.9	14.3	7.1	120.0
35	Machinery, except electrical	E1	281	46	4.3	55.9	2.9	5.7	31.5	122.1	89.6	209.2	6.1	6.0	109.9
3573	Electronic computing equipment	-	9	5	0.5	6.1	0.3	0.7	2.8	11.0	6.6	17.2	0.5	(NA)	(NA)
36	Electric and electronic equipment	-	211	80	13.5	176.0	7.7	15.3	82.4	381.6	231.2	623.5	18.2	14.0	273.5
364	Electric lighting and wiring equipment	E1	39	8	1.1	11.0	0.8	1.5	6.4	30.7	30.7	61.1	2.2	1.0	18.8
365	Radio and TV receiving equipment	-	16	8	1.0	9.9	0.6	1.2	5.2	22.4	19.6	42.1	0.7	(NA)	(NA)
367	Electronic components and accessories	-	73	25	3.6	43.1	2.4	4.7	22.0	88.8	51.8	150.1	6.7	4.1	72.9
3679	Electronic components, n.e.c.	E1	50	14	2.1	25.9	1.4	2.7	13.6	52.2	24.1	75.1	3.7	(NA)	(NA)
38	Instruments and related products	-	120	51	6.0	80.1	3.4	6.9	36.7	183.5	121.7	299.7	5.3	(NA)	(NA)
39	Miscellaneous manufacturing industries	E1	184	32	4.0	40.7	2.7	4.8	21.6	81.0	99.3	177.6	2.5	4.8	72.8
394	Toys and sporting goods	E1	20	4	1.6	15.7	0.9	1.7	7.4	29.6	30.0	59.2	0.5	2.2	35.4
399	Miscellaneous manufactures	E2	100	13	1.1	11.1	0.8	1.5	6.9	24.9	20.5	44.9	1.1	1.2	16.8
--	Administrative and auxiliary	-	48	24	2.4	48.0	-	-	-	-	-	-	-	(NA)	(NA)
	New York County	-	13 289	3 800	359.4	4 970.4	191.3	344.8	1 637.0	8 834.8	9 034.3	17 775.6	303.7	431.2	6 393.3
201	Meat products	E2	32	10	0.5	8.2	0.4	0.8	5.3	18.9	46.7	65.6	(D)	0.7	14.8
205	Bakery products	E1	43	8	1.1	14.6	0.6	1.1	6.4	23.8	21.0	45.4	0.5	1.7	22.8
23	Apparel and other textile products	E1	5 096	1 920	131.3	1 136.3	104.1	183.0	707.3	2 756.1	4 284.0	6 971.7	51.6	143.9	2 171.2
232	Men's and boys' furnishings	E1	330	131	15.0	117.9	11.2	19.9	70.4	303.0	554.8	829.1	6.2	13.7	243.2
2321	Men's and boys' shirts and nightwear	-	103	45	3.5	32.3	2.7	4.9	14.7	126.2	302.7	396.8	1.0	(NA)	(NA)
2327	Men's and boys' separate trousers	E1	78	21	6.9	48.1	4.7	8.0	31.3	101.9	154.7	258.9	3.4	(NA)	(NA)
2329	Men's and boys' clothing, n.e.c.	E1	57	25	2.2	16.0	1.9	3.5	10.0	31.7	54.7	87.7	0.7	(NA)	(NA)
233	Women's and misses' outerwear	E2	2 552	1 112	68.2	586.7	53.6	93.4	355.8	1 534.7	2 242.5	3 751.0	28.8	66.4	1 021.6
2331	Women's and misses' blouses and waists	-	231	118	8.1	72.1	6.3	10.6	41.3	280.7	381.1	659.5	5.1	(NA)	(NA)
2335	Women's and misses' dresses	E2	1 487	573	34.3	285.2	27.2	47.6	178.3	648.8	874.8	1 514.5	13.2	(NA)	(NA)
2337	Women's and misses' suits and coats	E2	425	207	12.7	122.4	9.7	17.6	72.0	302.3	494.0	793.9	4.0	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	E2	409	214	13.1	107.0	10.3	17.6	64.2	303.0	492.6	783.1	6.5	(NA)	(NA)
234	Women's and children's undergarments	-	219	100	7.4	64.0	5.5	9.5	31.6	161.0	274.0	431.5	1.4	10.0	166.0
2341	Women's and children's underwear	-	180	80	5.4	48.3	4.0	6.8	24.2	122.3	233.8	353.6	1.0	(NA)	(NA)
2342	Brassieres and allied garments	-	39	20	2.0	15.7	1.5	2.7	7.4	38.6	40.2	77.9	0.3	(NA)	(NA)
235	Hats, caps, and millinery	E3	149	44	2.7	20.4	2.3	4.1	14.4	35.6	38.7	73.9	0.6	3.2	32.6
236	Children's outerwear	E1	209	109	7.1	57.1	5.7	10.6	37.0	126.8	205.3	332.0	1.5	10.7	162.0
2361	Children's dresses and blouses	E1	108	63	3.6	31.2	2.8	5.5	19.2	77.1	120.9	196.1	0.6	(NA)	(NA)
2363	Children's coats and suits	E1	33	15	1.0	9.0	0.9	1.5	6.1	19.5	33.2	52.0	0.4	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ² (million dollars)	Value of ship- ments ² (million dollars)	New capital ex- penditures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	New York County—Con.														
23	Apparel and other textile products—Con.														
236	Children's outerwear—Con.														
2369	Children's outerwear, n.e.c. -----	E2	68	31	2.4	16.8	2.0	3.6	11.7	30.3	51.3	83.9	0.5	(NA)	(NA)
2371	Fur goods -----	E2	516	39	3.4	44.7	2.6	4.2	31.2	101.1	248.8	347.4	0.4	(NA)	(NA)
238	Miscellaneous apparel and accessories -----	E1	367	142	8.6	73.6	7.2	12.6	48.4	155.0	224.5	374.9	5.3	11.7	162.6
2384	Robes and dressing gowns -----	E1	41	23	1.9	15.1	1.6	2.8	10.7	41.4	67.2	106.9	1.1	(NA)	(NA)
2386	Leather and sheep lined clothing -----	E1	105	33	1.9	17.6	1.7	2.9	12.9	29.5	55.1	83.7	(D)	(NA)	(NA)
2387	Apparel belts -----	E1	129	50	3.0	23.9	2.5	4.2	15.1	45.5	45.1	89.1	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	E1	631	190	13.3	117.8	11.1	20.1	79.5	241.1	366.2	605.5	5.3	15.4	188.4
2391	Curtains and draperies --	-	83	25	1.7	15.8	1.4	2.6	10.9	40.5	94.9	134.8	0.4	(NA)	(NA)
2392	House furnishings, n.e.c. -----	E1	106	41	3.6	27.8	3.0	5.6	17.6	61.4	131.5	192.1	1.9	(NA)	(NA)
2395	Pleating and stitching ---	E2	160	46	3.1	25.6	2.7	4.5	17.6	50.9	45.4	95.4	1.1	(NA)	(NA)
2399	Fabricated textile products, n.e.c. -----	E3	70	19	1.2	10.3	1.0	1.8	6.9	20.5	21.4	41.6	0.5	(NA)	(NA)
25	Furniture and fixtures -----	E3	228	29	2.7	26.8	2.2	4.2	19.5	50.2	47.7	97.1	2.4	2.9	36.5
251	Household furniture -----	E5	140	18	1.5	13.7	1.3	2.4	10.3	24.5	21.1	45.2	(D)	1.7	20.6
2511	Wood household furniture -----	E5	75	10	0.8	6.8	0.7	1.3	5.1	12.2	11.2	23.1	1.3	(NA)	(NA)
2512	Upholstered household furniture -----	E5	44	6	0.6	5.4	0.5	0.8	4.0	8.6	6.4	15.0	(D)	(NA)	(NA)
254	Partitions and fixtures -----	E1	42	6	0.7	7.9	0.5	1.0	5.5	16.3	18.2	34.3	(D)	0.8	10.6
2542	Metal partitions and fixtures -----	-	24	4	0.5	5.4	0.4	0.7	3.7	12.3	15.6	27.6	(D)	(NA)	(NA)
26	Paper and allied products ---	E4	132	42	2.9	34.8	2.3	4.5	23.5	67.8	67.8	135.0	8.1	3.5	56.6
264	Miscellaneous converted paper products -----	E4	102	27	2.1	25.0	1.6	3.3	16.7	47.8	50.1	97.5	5.0	2.3	31.7
2649	Converted paper products, n.e.c. -----	E6	31	8	0.8	9.6	0.7	1.3	6.4	17.5	15.4	32.1	(D)	(NA)	(NA)
27	Printing and publishing -----	-	3 242	644	87.7	1 433.1	31.8	57.8	471.3	4 316.1	2 376.6	6 699.6	101.2	95.7	2 799.1
2711	Newspapers -----	-	98	26	12.0	246.8	6.9	10.7	129.1	407.2	195.5	602.5	20.8	(NA)	(NA)
273	Books -----	-	373	113	19.7	297.1	2.3	4.9	27.7	1 291.7	642.0	1 955.2	25.4	21.5	849.5
2731	Book publishing -----	-	287	89	18.0	273.4	1.1	2.6	12.7	1 248.6	613.4	1 883.5	(D)	(NA)	(NA)
2732	Book printing -----	E1	86	24	1.7	23.7	1.2	2.4	15.0	43.1	28.6	71.7	(D)	(NA)	(NA)
2741	Miscellaneous publishing -----	-	312	36	5.9	76.3	1.1	2.2	9.7	199.1	81.4	280.3	3.3	(NA)	(NA)
275	Commercial printing -----	E2	1 456	208	17.1	258.7	12.6	23.4	171.1	469.3	339.3	805.7	19.0	20.0	410.9
2751	Commercial printing, letterpress -----	E3	752	78	5.9	76.7	4.5	8.2	51.0	137.5	95.6	232.6	6.7	(NA)	(NA)
2752	Commercial printing, lithographic -----	E1	629	120	10.3	169.8	7.4	14.0	111.5	309.1	234.7	541.5	10.9	(NA)	(NA)
2753	Engraving and plate printing -----	E1	48	9	0.8	9.4	0.5	0.9	6.4	17.5	4.9	22.2	0.8	(NA)	(NA)
278	Blankbooks and bookbinding -----	E2	179	42	2.8	31.5	2.4	4.6	24.3	53.8	18.7	72.2	1.6	4.1	57.4
2782	Blankbooks and looseleaf binders -----	E2	33	12	0.6	6.0	0.5	1.0	4.3	11.5	10.1	21.5	0.4	(NA)	(NA)
2789	Bookbinding and related work -----	E2	146	30	2.2	25.5	1.9	3.6	20.0	42.3	8.6	50.7	1.2	(NA)	(NA)
28	Chemicals and allied products -----	E2	128	22	1.7	25.3	1.0	2.1	11.7	87.6	76.0	162.6	(D)	2.6	66.8
3079	Miscellaneous plastics products -----	E5	78	14	0.9	8.5	0.8	1.4	5.1	21.2	17.1	38.2	(D)	(NA)	(NA)
31	Leather and leather products -----	E2	332	126	9.6	75.4	8.2	15.1	52.3	157.4	149.9	305.7	(D)	12.4	126.6
3142	House slippers -----	E2	7	4	0.5	3.0	0.4	0.7	2.4	4.6	3.5	8.2	(D)	(NA)	(NA)
3161	Luggage -----	E3	33	14	0.9	7.2	0.7	1.3	4.8	12.2	8.9	21.1	(D)	(NA)	(NA)
317	Handbags and other personal leather goods ---	E1	193	87	6.2	49.0	5.3	10.1	33.0	111.1	108.7	218.8	(D)	7.6	73.6
3171	Women's handbags and purses -----	E1	140	64	4.8	37.8	4.2	7.9	26.4	89.0	85.5	174.1	(D)	(NA)	(NA)
3172	Personal leather goods ---	E2	53	23	1.4	11.2	1.1	2.2	6.6	22.1	23.2	44.7	(D)	(NA)	(NA)
3199	Leather goods, n.e.c. ---	E2	41	8	0.7	5.8	0.6	1.1	3.7	10.5	10.7	20.6	(D)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	New York County—Con.														
32	Stone, clay, and glass products -----	E3	66	10	0.9	10.9	0.7	1.4	7.8	23.0	17.2	40.0	0.9	1.0	16.2
35	Machinery, except electrical --	E3	220	24	2.0	26.1	1.4	2.7	15.0	43.5	36.1	80.0	2.2	3.3	55.4
354	Metalworking machinery ---	E3	58	6	0.5	6.3	0.4	0.8	4.5	9.3	4.1	14.1	0.5	0.9	16.0
355	Special industry machinery -	E3	64	11	0.6	8.5	0.4	0.8	4.6	14.2	12.3	26.4	0.5	0.9	15.5
36	Electric and electronic equipment -----	E2	263	56	4.6	53.2	3.2	6.0	28.5	170.1	92.5	260.5	3.5	4.3	89.8
363	Household appliances -----	E5	33	11	0.5	6.2	0.4	0.7	4.1	11.4	7.0	18.5	0.4	0.5	9.6
364	Electric lighting and wiring equipment -----	E5	46	10	0.6	7.0	0.5	0.9	4.3	13.2	13.0	26.3	0.3	0.8	11.6
3652	Phonograph records and prerecorded tape --	E1	105	18	1.7	20.4	1.2	2.2	9.9	105.4	45.4	150.1	(D)	(NA)	(NA)
367	Electronic components and accessories -----	E3	35	6	1.1	10.9	0.8	1.3	5.5	19.5	10.7	28.8	0.8	0.8	11.8
38	Instruments and related products -----	E3	149	42	3.0	32.4	2.2	4.2	18.0	65.3	56.1	121.4	2.2	4.2	68.4
39	Miscellaneous manufacturing industries -----	E1	1 806	332	27.1	290.2	20.2	36.7	165.5	671.2	1 017.3	1 666.6	16.7	30.0	473.6
391	Jewelry, silverware, and plated ware -----	E1	899	172	13.1	157.2	9.1	16.3	81.6	389.4	768.2	1 138.1	7.9	12.3	234.1
3911	Jewelry, precious metal --	E1	671	151	11.2	135.0	7.6	13.8	70.1	312.5	512.2	820.8	(D)	(NA)	(NA)
3915	Jewelers' materials and lapidary work -----	E1	217	19	1.8	20.6	1.3	2.3	10.4	74.0	252.8	311.3	(D)	(NA)	(NA)
394	Toys and sporting goods --	E2	60	11	1.6	10.8	1.4	2.4	7.8	21.2	18.6	39.6	0.6	1.8	20.2
395	Pens, pencils, office and art supplies -----	-	41	11	1.2	13.2	0.8	1.5	7.1	26.6	29.8	54.9	0.7	1.1	17.8
3952	Lead pencils and art goods -----	-	10	5	0.7	8.1	0.5	0.9	4.5	17.6	21.0	37.3	0.4	(NA)	(NA)
396	Costume jewelry and notions -----	E1	320	83	6.2	53.6	5.0	9.1	34.3	110.6	92.3	202.9	3.4	7.0	88.1
3961	Costume jewelry -----	E1	152	40	2.8	24.4	2.2	4.1	15.0	53.7	42.3	94.5	1.5	(NA)	(NA)
3962	Artificial flowers -----	-	31	10	0.7	5.5	0.6	1.0	3.6	10.8	8.8	19.4	0.1	(NA)	(NA)
3963	Buttons -----	E1	69	11	0.9	8.9	0.7	1.2	5.4	12.1	10.1	24.1	0.2	(NA)	(NA)
3964	Needles, pins, and fasteners -----	E2	68	22	1.8	14.7	1.5	2.8	10.2	34.1	31.0	65.0	1.5	(NA)	(NA)
399	Miscellaneous manufactures -----	E2	478	55	5.1	55.1	3.9	7.2	34.4	122.7	107.9	229.8	4.0	7.6	112.7
3993	Signs and advertising displays -----	E3	105	22	1.8	18.8	1.3	2.6	11.0	34.5	28.3	62.7	1.3	(NA)	(NA)
3999	Manufacturing industries, n.e.c. -----	E2	362	30	3.0	33.2	2.4	4.3	21.6	77.8	70.2	148.2	2.5	(NA)	(NA)
--	Administrative and auxiliary --	-	592	332	67.7	1 634.3	-	-	-	-	-	-	-	(NA)	(NA)
	Niagara County -----	-	306	128	31.5	520.7	22.7	45.8	343.4	1 526.4	1 204.4	2 701.6	125.5	31.8	895.3
20	Food and kindred products --	-	28	8	1.2	14.9	1.0	2.2	11.9	86.3	53.9	139.6	(D)	1.4	37.8
26	Paper and allied products ---	-	13	10	1.6	22.6	1.2	2.9	16.1	31.0	74.9	106.3	(D)	2.4	40.9
281	Industrial inorganic chemicals -----	-	8	6	1.3	24.3	0.9	1.9	15.7	108.5	71.8	180.7	(D)	1.2	53.9
32	Stone, clay, and glass products -----	-	24	12	3.2	46.7	2.5	4.8	34.2	122.5	109.8	228.9	(D)	2.9	73.5
34	Fabricated metal products ---	-	36	13	1.1	11.9	0.8	1.6	8.0	22.6	24.1	46.7	(D)	1.1	13.8
--	Administrative and auxiliary --	-	11	8	1.3	25.1	-	-	-	-	-	-	-	(NA)	(NA)
	Oneida County -----	-	314	108	21.8	286.2	14.9	28.3	166.4	562.5	700.0	1 246.3	29.8	23.4	441.8
20	Food and kindred products --	-	49	13	1.2	13.1	0.8	1.6	8.0	30.3	119.9	149.3	2.2	(NA)	(NA)
23	Apparel and other textile products -----	-	11	4	0.6	5.0	0.5	0.9	4.1	7.4	3.9	11.2	(D)	1.1	13.3
27	Printing and publishing -----	E1	43	11	0.9	9.4	0.5	0.8	4.3	18.9	7.6	26.5	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	19	4	0.5	4.3	0.4	0.7	2.7	9.7	6.2	15.5	0.6	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Oneida County—Con.														
335	Nonferrous rolling and drawing -----	-	8	7	3.8	54.9	2.8	5.7	40.3	108.5	268.4	371.9	8.2	3.5	73.9
3357	Nonferrous wire drawing and insulating -----	-	4	4	1.7	23.4	1.3	2.7	17.2	57.2	99.8	152.4	(D)	(NA)	(NA)
38	Instruments and related products -----	-	9	4	0.6	5.7	0.4	0.8	3.3	17.1	11.6	27.8	1.0	(NA)	(NA)
205	Onondaga County -----	-	594	221	47.8	744.0	29.9	59.6	410.5	1 534.9	1 364.3	2 870.8	100.5	51.6	1 040.5
	Bakery products -----	-	14	3	0.6	8.0	0.3	0.5	4.0	19.9	12.8	32.7	0.1	0.7	17.4
27	Printing and publishing -----	E1	112	22	1.9	24.0	1.1	2.0	12.2	57.6	26.1	83.6	3.1	2.2	42.2
30	Rubber and miscellaneous plastics products -----	-	14	9	1.6	15.8	1.3	2.4	10.1	36.8	26.0	62.1	1.7	(NA)	(NA)
344	Fabricated structural metal products -----	E1	27	13	0.7	9.8	0.5	1.0	6.4	18.4	17.7	35.7	(D)	(NA)	(NA)
356	General industrial machinery -----	-	21	15	2.0	26.9	1.3	2.7	16.9	47.4	47.4	94.6	3.7	(NA)	(NA)
36	Electric and electronic equipment -----	-	32	19	10.2	165.3	5.2	10.4	68.8	303.5	156.2	457.8	(D)	(NA)	(NA)
38	Instruments and related products -----	-	16	8	1.2	12.9	0.9	2.1	9.3	34.1	14.3	47.2	1.8	(NA)	(NA)
--	Administrative and auxiliary --	-	14	10	2.9	53.0	-	-	-	-	-	-	-	(NA)	(NA)
	Ontario County -----	-	125	43	4.6	53.9	3.4	6.6	34.5	139.3	146.5	281.9	8.3	4.4	76.4
20	Food and kindred products --	E1	16	10	0.7	7.0	0.5	1.0	3.6	19.4	41.2	60.3	1.1	0.7	15.9
30	Rubber and miscellaneous plastics products -----	-	6	4	0.9	10.1	0.7	1.4	6.5	28.6	23.5	51.4	3.5	(NA)	(NA)
35	Machinery, except electrical --	-	33	7	1.1	15.6	0.8	1.5	10.6	28.9	21.5	50.7	0.9	1.1	15.2
	Orange County -----	-	358	146	15.2	156.2	11.6	22.1	104.0	406.3	401.6	797.6	21.7	16.5	237.2
20	Food and kindred products --	-	24	10	0.7	7.6	0.4	0.7	4.5	21.5	39.3	60.9	(D)	1.1	24.3
22	Textile mill products -----	-	15	10	1.2	11.9	1.1	2.4	10.4	18.8	15.9	34.6	(D)	1.7	26.5
26	Paper and allied products ---	-	13	9	0.6	6.6	0.4	0.9	4.1	15.6	25.3	40.6	(D)	0.7	13.3
27	Printing and publishing -----	E1	43	7	0.9	8.5	0.4	0.7	3.7	19.7	8.8	28.5	(D)	0.9	14.2
2711	Newspapers -----	-	12	4	0.6	5.5	0.1	0.3	1.5	14.4	4.0	18.4	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	11	7	1.8	20.3	1.0	2.0	11.0	119.2	54.7	172.9	(D)	1.1	36.9
284	Soaps, cleaners, and toilet goods -----	-	4	3	1.2	10.2	0.7	1.5	6.7	97.4	25.6	123.1	0.8	0.8	30.2
30	Rubber and miscellaneous plastics products -----	E2	14	9	1.4	16.3	1.1	2.2	11.1	32.7	36.8	67.8	(D)	0.6	8.0
31	Leather and leather products -----	-	12	11	1.2	8.2	1.1	1.9	6.3	12.6	11.9	24.0	(D)	1.6	13.8
32	Stone, clay, and glass products -----	-	20	6	0.6	6.5	0.5	0.9	4.4	7.3	16.1	24.0	(D)	0.9	14.3
33	Primary metal industries -----	-	10	6	0.8	9.7	0.6	1.3	7.5	21.9	56.4	79.1	(D)	0.5	9.6
34	Fabricated metal products ---	-	24	10	1.4	18.6	1.1	2.2	12.1	46.7	41.7	87.3	(D)	1.5	24.5
349	Miscellaneous fabricated metal products -----	-	9	5	0.6	5.6	0.4	0.8	3.4	12.9	5.9	18.6	(D)	0.5	6.7
36	Electric and electronic equipment -----	E1	15	6	0.5	4.6	0.4	0.7	3.0	11.0	11.5	22.4	(D)	1.0	12.2
	Orleans County -----	-	48	16	2.8	29.8	2.3	4.5	23.0	105.7	85.2	190.6	2.7	2.6	76.8
	Oswego County -----	-	109	40	8.4	128.8	6.4	12.9	92.2	448.8	860.0	1 307.7	48.4	5.9	136.3
26	Paper and allied products ---	-	8	7	1.6	23.8	1.2	2.7	16.8	55.4	86.4	142.3	(D)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	E ¹	1977										1972		
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Otsego County -----	-	60	18	1.6	15.3	1.2	2.3	9.4	32.9	42.6	74.9	1.8	1.3	18.5
	Queens County -----	-	2 710	907	94.1	1 060.1	70.1	134.1	658.0	2 256.4	2 208.7	4 461.7	92.8	113.6	1 908.2
20	Food and kindred products --	-	159	63	10.1	146.2	6.8	13.7	86.6	522.1	630.0	1 149.9	19.2	11.5	335.2
2013	Sausages and other prepared meats -----	-	11	7	1.0	16.9	0.7	1.6	12.5	44.9	74.0	119.5	(D)	(NA)	(NA)
202	Dairy products-----	-	16	10	1.6	29.6	0.9	1.9	16.1	66.2	186.3	252.0	2.3	2.3	67.8
203	Preserved fruits and vegetables-----	E2	18	8	0.8	8.2	0.7	1.2	5.5	28.1	31.3	59.4	0.7	0.6	11.9
205	Bakery products-----	-	51	12	2.3	33.0	1.4	2.5	16.2	113.0	64.8	177.4	3.1	3.0	58.9
208	Beverages-----	-	15	7	1.4	20.4	0.8	1.5	10.7	101.2	98.8	200.4	(D)	2.0	84.3
209	Miscellaneous foods and kindred products-----	-	27	9	0.9	11.5	0.7	1.7	7.4	46.2	66.9	111.4	(D)	0.8	20.3
22	Textile mill products-----	E2	207	113	8.6	74.5	7.6	14.5	60.5	114.2	113.7	231.2	5.3	9.5	111.3
23	Apparel and other textile products-----	E1	437	170	12.6	101.3	10.9	18.9	76.7	208.2	199.9	403.6	4.0	12.9	159.5
2335	Women's and misses' dresses-----	E4	160	40	2.0	12.9	1.8	3.0	10.2	23.5	14.3	37.7	0.3	(NA)	(NA)
2337	Women's and misses' suits and coats-----	-	36	18	1.8	17.7	1.5	2.6	12.7	47.8	69.7	116.1	0.7	(NA)	(NA)
2392	House furnishings, n.e.c.-----	E3	34	12	1.0	7.0	0.8	1.5	5.5	10.7	17.1	27.7	0.2	(NA)	(NA)
25	Furniture and fixtures-----	E2	109	32	2.8	31.4	2.2	4.0	20.8	50.8	42.9	92.4	1.1	2.5	40.2
251	Household furniture-----	E4	46	9	1.0	9.2	0.8	1.5	5.9	14.4	17.2	31.5	(D)	0.9	12.0
2514	Metal household furniture-----	E2	8	4	0.5	4.6	0.4	0.7	2.7	7.0	9.6	16.6	(D)	(NA)	(NA)
254	Partitions and fixtures-----	E1	38	17	1.4	16.6	1.0	1.9	11.5	26.9	17.0	42.6	(D)	1.0	19.1
2541	Wood partitions and fixtures-----	-	22	9	0.6	8.6	0.5	0.9	6.2	12.8	6.8	18.5	(D)	(NA)	(NA)
2542	Metal partitions and fixtures-----	E1	16	8	0.7	8.0	0.6	1.0	5.3	14.1	10.2	24.1	(D)	(NA)	(NA)
26	Paper and allied products---	E1	83	51	6.4	77.5	4.9	9.8	48.3	144.9	167.2	311.8	6.4	6.1	30.0
2642	Envelopes-----	-	7	4	0.5	6.3	0.4	0.9	4.6	13.5	15.9	29.2	(D)	(NA)	(NA)
2643	Bags, except textile bags-----	E2	10	4	0.5	8.1	0.3	0.6	3.4	11.4	16.2	27.5	0.4	(NA)	(NA)
2649	Converted paper products, n.e.c.-----	E4	12	6	1.0	11.5	0.7	1.4	6.6	24.4	32.6	57.0	1.1	(NA)	(NA)
265	Paperboard containers and boxes-----	-	40	28	3.8	45.0	3.0	5.9	29.0	80.5	82.9	163.4	3.7	3.9	56.4
2651	Folding paperboard boxes-----	-	10	5	0.6	7.7	0.5	1.0	4.8	13.9	13.4	26.9	0.3	(NA)	(NA)
2652	Setup paperboard boxes-----	E4	8	6	1.0	8.5	0.8	1.5	5.8	14.4	9.0	23.6	0.8	(NA)	(NA)
2653	Corrugated and solid fiber boxes-----	-	15	14	1.5	19.7	1.0	2.0	11.7	36.1	44.4	80.5	1.8	(NA)	(NA)
27	Printing and publishing-----	E1	278	51	4.2	61.8	3.1	5.8	46.8	106.2	67.5	178.0	4.6	6.6	133.2
2711	Newspapers-----	-	25	3	0.9	16.9	0.5	0.9	15.2	27.7	14.8	42.5	0.4	(NA)	(NA)
275	Commercial printing-----	E1	170	24	2.1	28.4	1.5	2.9	20.0	47.8	37.3	85.4	3.1	3.3	62.4
2752	Commercial printing, lithographic-----	-	67	10	1.3	19.5	1.0	1.9	14.3	27.5	23.5	51.3	(D)	(NA)	(NA)
278	Blankbooks and bookbinding-----	E2	19	12	0.6	7.0	0.6	1.1	5.5	12.7	4.5	16.9	0.6	0.8	8.9
2789	Bookbinding and related work-----	E1	11	8	0.5	5.5	0.4	0.8	4.5	9.7	2.3	11.7	0.4	(NA)	(NA)
28	Chemicals and allied products-----	E1	99	20	2.1	27.5	1.2	2.3	11.4	95.4	88.8	184.5	3.2	2.7	84.7
284	Soaps, cleaners, and toilet goods-----	E1	44	10	1.1	15.6	0.6	1.1	5.6	73.5	50.2	123.7	1.5	1.3	52.7
30	Rubber and miscellaneous plastics products-----	E1	88	36	2.5	24.9	2.0	3.9	16.5	54.9	54.6	107.7	2.8	3.1	46.2
31	Leather and leather products-----	E3	25	11	1.0	7.0	0.9	1.5	5.2	14.4	15.0	28.7	(D)	2.2	23.3
32	Stone, clay, and glass products-----	E1	70	17	1.0	10.8	0.8	1.5	6.7	28.0	23.1	51.1	1.2	1.3	22.3
329	Miscellaneous nonmetallic mineral products-----	-	16	8	0.5	5.8	0.4	0.8	3.3	17.0	11.1	28.1	0.5	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972		
		E¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials² (million dollars)	Value of ship- ments² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Queens County—Con.														
33	Primary metal industries -----	-	39	10	2.3	28.2	1.8	3.4	19.1	55.8	116.9	173.5	1.5	2.6	41.4
335	Nonferrous rolling and drawing -----	-	6	4	1.0	11.7	0.8	1.5	7.8	25.7	84.2	111.0	(D)	(NA)	(NA)
34	Fabricated metal products ---	E1	303	100	7.7	91.5	6.0	11.9	58.9	162.5	148.5	308.5	6.1	9.8	159.4
344	Fabricated structural metal products -----	E1	95	22	1.6	23.1	1.1	2.3	13.3	39.0	37.1	76.9	(D)	2.5	47.1
3452	Bolts, nuts, rivets, and washers -----	-	8	4	0.6	8.4	0.5	0.9	4.9	11.4	12.6	23.4	0.1	(NA)	(NA)
346	Metal forgings and stampings -----	E3	42	16	1.1	13.4	0.9	1.7	8.8	26.3	23.9	49.6	(D)	1.4	23.6
349	Miscellaneous fabricated metal products -----	-	59	20	1.8	20.0	1.5	2.9	13.4	38.3	40.6	75.6	(D)	1.8	30.8
3496	Miscellaneous fabricated wire products -----	-	18	4	0.5	5.1	0.4	0.8	3.5	8.6	9.9	18.6	(D)	(NA)	(NA)
3499	Fabricated metal products, n.e.c. -----	E2	28	8	0.5	4.9	0.3	0.7	2.8	10.3	10.1	19.8	(D)	(NA)	(NA)
35	Machinery, except electrical --	E1	252	41	5.5	66.9	4.1	7.8	41.4	134.5	80.9	215.9	15.5	6.7	109.3
36	Electric and electronic equipment -----	-	126	49	9.0	108.3	5.5	11.3	49.2	206.9	156.3	368.8	10.3	10.8	176.3
364	Electric lighting and wiring equipment -----	-	33	15	2.4	25.6	2.0	4.5	17.5	50.1	42.9	91.0	(D)	2.9	41.9
3645	Residential lighting fixtures -----	E1	16	7	0.5	4.3	0.3	0.6	2.6	10.6	13.6	24.0	0.2	(NA)	(NA)
366	Communication equipment -	-	20	11	1.7	23.5	0.8	1.5	7.9	53.7	31.8	83.3	1.1	1.7	27.4
37	Transportation equipment ---	E1	33	9	0.9	11.2	0.6	1.4	7.6	21.4	14.4	35.5	0.6	2.1	37.6
38	Instruments and related products -----	-	87	34	6.4	74.5	4.4	8.8	41.7	144.1	141.2	281.2	4.5	9.0	144.8
39	Miscellaneous manufacturing industries -----	E1	211	72	8.6	84.9	6.6	12.1	51.0	173.7	119.2	292.8	5.2	10.0	153.9
391	Jewelry, silverware, and plated ware -----	E1	26	6	1.0	10.5	0.7	1.3	6.3	17.5	18.0	35.6	0.2	0.7	11.0
3911	Jewelry, precious metal --	-	12	4	0.8	8.6	0.5	0.9	5.0	14.4	14.4	29.0	(D)	(NA)	(NA)
3931	Musical instruments -----	-	5	4	0.9	8.6	0.7	1.4	6.3	15.9	6.5	22.9	(D)	(NA)	(NA)
394	Toys and sporting goods ---	-	21	12	3.3	31.2	2.5	4.6	15.5	75.1	48.6	122.3	(D)	3.2	55.0
3944	Games, toys, and children's vehicles -----	-	10	8	3.1	28.9	2.2	4.2	13.9	70.8	44.6	114.1	(D)	(NA)	(NA)
396	Costume jewelry and notions -----	-	31	11	0.9	7.3	0.8	1.3	4.8	13.3	12.1	25.4	0.2	1.7	23.4
399	Miscellaneous manufactures -----	E2	119	37	2.4	25.9	1.8	3.3	17.3	49.9	29.9	80.2	1.3	3.2	48.8
3993	Signs and advertising displays -----	E2	59	24	1.5	17.3	1.1	2.0	11.1	32.5	18.5	51.0	(D)	(NA)	(NA)
3999	Manufacturing industries, n.e.c. -----	E2	53	11	0.7	6.6	0.5	1.0	4.9	12.5	7.2	20.1	0.3	(NA)	(NA)
--	Administrative and auxiliary --	-	29	11	1.5	20.8	-	-	-	-	-	-	-	(NA)	(NA)
	Rensselaer County -----	-	127	39	7.1	87.9	4.4	8.5	47.1	210.4	139.2	350.4	8.7	8.9	171.1
26	Paper and allied products ---	-	5	3	0.5	6.1	0.4	0.7	4.5	11.7	11.2	23.4	(D)	0.6	10.6
27	Printing and publishing -----	E1	28	4	0.6	6.5	0.3	0.6	3.6	11.6	6.4	17.9	(D)	0.6	7.4
--	Administrative and auxiliary --	-	4	3	0.5	6.3	-	-	-	-	-	-	-	(NA)	(NA)
	Richmond County -----	-	125	40	4.7	66.2	3.6	7.0	46.7	183.1	441.7	616.4	13.6	6.0	166.4
23	Apparel and other textile products -----	E3	34	16	1.1	7.3	0.9	1.6	5.8	10.6	5.0	15.6	0.1	1.4	12.9
	Rockland County -----	-	278	87	14.8	202.4	9.0	17.3	105.3	809.9	433.2	1 240.1	31.9	14.0	516.5
22	Textile mill products -----	-	7	4	0.6	6.4	0.5	0.8	4.9	8.6	15.4	23.8	(D)	(NA)	(NA)
23	Apparel and other textile products -----	E1	23	11	0.6	4.2	0.5	0.9	3.1	8.9	12.8	21.7	0.4	(NA)	(NA)
26	Paper and allied products ---	-	6	4	0.7	9.4	0.6	1.3	8.1	24.4	27.9	51.9	(D)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
	Rockland County—Con.														
27	Printing and publishing -----	-	49	4	0.9	9.8	0.3	0.5	2.7	116.3	39.9	156.3	(D)	1.0	84.8
28	Chemicals and allied products -----	-	21	8	4.8	73.5	3.0	5.5	44.1	487.1	208.7	693.4	13.6	4.4	321.0
33	Primary metal industries -----	-	10	5	1.1	17.7	0.8	2.0	11.0	46.8	26.9	73.2	1.3	0.6	15.8
35	Machinery, except electrical --	E1	29	4	0.5	7.0	0.4	0.7	4.3	13.3	7.4	20.7	0.5	(NA)	(NA)
36	Electric and electronic equipment -----	E1	22	12	1.2	14.2	0.9	1.6	7.1	29.9	25.0	54.6	(D)	1.1	8.3
39	Miscellaneous manufacturing industries -----	-	20	8	0.7	6.6	0.6	1.0	4.3	12.2	10.5	22.4	1.3	(NA)	(NA)
--	Administrative and auxiliary --	-	11	10	1.7	29.2	-	-	-	-	-	-	-	(NA)	(NA)
	St. Lawrence County -----	-	87	34	7.2	120.1	5.5	11.2	88.7	398.5	785.1	1 210.4	43.8	7.7	131.9
20	Food and kindred products --	-	23	9	0.6	6.8	0.4	0.9	4.7	24.8	90.9	115.4	(D)	0.6	13.0
202	Dairy products -----	-	12	8	0.5	5.6	0.4	0.7	3.9	21.2	74.3	95.3	(D)	0.5	8.9
33	Primary metal industries -----	-	6	5	4.1	82.8	3.3	6.5	62.7	307.8	609.8	946.1	(D)	4.1	69.4
	Saratoga County -----	-	120	35	5.3	77.9	3.6	7.7	46.1	210.3	228.1	433.2	31.6	(D)	(D)
26	Paper and allied products ---	-	13	9	1.6	25.0	1.4	2.9	20.5	66.6	91.4	156.8	(D)	(NA)	(NA)
	Schenectady County -----	-	144	52	24.4	421.8	12.4	25.2	168.1	750.8	642.7	1 344.5	19.6	(D)	(D)
	Schuyler County -----	-	19	6	1.2	14.9	0.9	1.7	9.5	30.9	22.1	52.7	2.6	1.2	21.9
	Seneca County -----	-	35	12	3.3	43.5	2.1	4.3	25.4	102.2	92.6	198.3	8.1	3.5	76.2
	Steuben County -----	-	91	41	14.2	211.1	7.2	14.6	83.2	393.9	271.7	864.4	19.5	11.4	200.2
20	Food and kindred products --	-	17	7	1.1	15.4	0.8	1.6	8.0	56.6	94.5	153.1	(D)	1.2	41.4
35	Machinery, except electrical --	-	10	8	3.4	47.0	2.3	4.7	29.1	123.8	78.2	198.3	(D)	2.3	42.0
	Suffolk County -----	-	2 379	632	63.8	760.1	45.3	85.2	438.2	1 667.7	1 296.5	2 956.3	79.7	56.8	904.7
20	Food and kindred products --	E1	82	21	3.1	41.3	2.1	4.1	22.8	110.0	125.6	235.7	1.9	2.7	42.5
22	Textile mill products -----	E2	62	27	2.0	19.7	1.8	3.4	16.0	31.1	41.0	73.0	3.1	2.3	31.6
225	Knitting mills -----	E2	48	23	1.5	15.3	1.4	2.6	12.1	23.5	32.0	56.5	2.9	1.6	21.1
23	Apparel and other textile products -----	E2	179	87	5.0	36.9	4.4	7.2	28.3	70.8	70.2	139.9	1.6	(NA)	(NA)
2335	Women's and misses' dresses -----	E6	75	37	1.8	11.4	1.6	2.7	9.5	17.7	8.0	25.6	0.3	(NA)	(NA)
25	Furniture and fixtures -----	E2	69	16	1.3	13.3	1.1	2.0	8.8	27.0	22.6	49.7	(D)	1.1	14.7
26	Paper and allied products ---	E3	47	21	1.8	18.6	1.4	2.6	12.7	47.6	61.1	107.2	1.2	1.3	24.7
264	Miscellaneous converted paper products -----	E5	27	10	0.9	8.3	0.7	1.3	5.6	25.1	29.0	53.8	0.5	(NA)	(NA)
265	Paperboard containers and boxes -----	-	20	11	0.9	10.3	0.7	1.3	7.1	22.6	32.0	53.4	0.6	0.8	16.2
275	Commercial printing -----	E2	182	19	2.3	30.5	1.6	2.9	19.3	61.4	36.0	97.3	5.3	1.7	27.4
2751	Commercial printing, letterpress -----	E3	104	9	1.0	11.1	0.7	1.2	6.8	20.0	13.2	33.3	0.7	(NA)	(NA)
2752	Commercial printing, lithographic -----	E2	73	9	1.2	19.0	0.9	1.7	12.2	40.6	22.3	62.8	4.6	(NA)	(NA)
28	Chemicals and allied products -----	E1	67	19	2.8	26.2	2.0	3.8	14.9	251.3	130.0	378.9	(D)	2.0	39.5
30	Rubber and miscellaneous plastics products -----	E2	93	34	2.8	27.3	2.2	4.2	18.4	57.7	61.6	118.5	4.6	2.2	29.5

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Suffolk County—Con.														
30	Rubber and miscellaneous plastics products—Con.														
3079	Miscellaneous plastics products-----	E2	87	32	2.7	26.2	2.1	4.0	17.7	55.4	59.6	114.3	4.5	(NA)	(NA)
33	Primary metal industries-----	E1	37	11	0.9	10.6	0.7	1.3	6.0	20.9	40.6	61.9	(D)	0.6	10.3
34	Fabricated metal products---	E1	266	63	5.8	66.5	4.4	8.8	43.5	127.9	145.8	270.7	9.0	6.0	89.4
35	Machinery, except electrical--	E1	433	65	6.2	83.8	4.0	7.9	44.6	174.2	107.1	278.5	8.8	3.1	53.1
3573	Electronic computing equipment-----	-	17	9	1.4	20.6	0.8	1.7	8.6	47.7	35.7	81.7	2.0	(NA)	(NA)
36	Electric and electronic equipment-----	-	230	98	17.4	225.3	11.9	22.6	131.0	426.9	259.1	686.1	16.6	16.4	269.8
364	Electric lighting and wiring equipment-----	-	28	14	1.6	16.8	1.2	2.1	9.2	40.7	46.5	85.0	1.8	1.4	25.6
365	Radio and TV receiving equipment-----	E2	18	9	0.9	8.4	0.7	1.2	4.4	16.0	22.7	38.8	0.9	1.0	9.5
367	Electronic components and accessories-----	E1	82	29	3.9	44.3	2.7	5.0	24.2	73.5	49.1	121.8	3.8	2.2	34.3
3675	Electronic capacitors-----	-	3	3	0.6	6.8	0.5	1.0	4.5	9.7	2.4	11.8	(D)	(NA)	(NA)
38	Instruments and related products-----	E2	105	35	3.1	37.3	1.9	3.7	18.2	87.7	55.2	141.4	3.3	2.2	38.7
39	Miscellaneous manufacturing industries-----	E2	114	25	1.9	16.6	1.5	2.7	10.7	38.2	33.1	73.2	1.4	1.4	22.5
394	Toys and sporting goods---	E1	23	6	0.5	4.1	0.4	0.6	2.5	16.3	13.4	29.9	0.4	0.6	13.5
399	Miscellaneous manufactures-----	E2	66	13	0.9	7.9	0.7	1.2	5.1	14.1	10.6	26.4	0.7	0.6	6.8
-	Administrative and auxiliary--	-	25	19	1.9	38.0	-	-	-	-	-	-	-	(NA)	(NA)
	Sullivan County-----	-	81	9	0.8	8.2	0.6	1.2	5.2	19.9	29.0	49.2	1.5	0.9	13.6
	Tioga County-----	-	50	17	6.7	125.1	2.5	4.5	26.9	235.5	98.7	331.0	(D)	4.7	81.3
	Tompkins County-----	-	84	17	5.3	65.3	3.8	7.0	38.9	153.5	94.6	243.6	9.2	5.4	87.4
	Ulster County-----	-	237	59	7.9	79.3	6.0	11.2	50.5	186.0	151.7	336.5	7.4	12.6	183.8
23	Apparel and other textile products-----	-	28	16	1.6	10.5	1.4	2.4	7.9	18.3	17.4	35.3	(D)	1.2	10.2
27	Printing and publishing-----	E2	31	7	0.6	6.2	0.4	0.8	3.7	14.4	10.7	25.3	(D)	0.5	6.9
34	Fabricated metal products---	-	21	5	1.0	6.4	0.6	1.1	4.6	14.8	8.6	23.0	(D)	0.6	7.1
35	Machinery, except electrical--	-	34	6	1.4	16.7	1.0	2.0	9.2	36.4	15.5	49.7	(D)	(NA)	(NA)
	Warren County-----	-	95	27	5.1	65.2	3.9	7.8	45.4	147.8	211.3	357.3	35.1	4.8	79.9
23	Apparel and other textile products-----	E1	5	4	0.6	3.2	0.5	0.9	2.8	5.9	3.3	8.9	(D)	0.6	3.6
24	Lumber and wood products---	-	30	6	0.6	6.4	0.5	1.0	4.1	10.0	54.4	66.2	(D)	(NA)	(NA)
	Washington County-----	-	77	29	5.9	76.1	4.7	9.2	50.9	183.9	185.7	369.4	13.5	5.8	116.5
26	Paper and allied products---	-	7	6	1.3	18.4	1.1	2.1	14.1	54.8	86.9	141.7	(D)	1.4	39.5
	Wayne County-----	-	119	41	6.9	77.9	4.7	9.5	45.7	158.0	189.2	345.8	9.9	6.8	106.5
20	Food and kindred products---	-	24	10	1.2	12.7	1.0	2.1	8.0	41.9	68.1	109.7	2.5	1.5	26.0
203	Preserved fruits and vegetables-----	-	14	6	1.0	10.1	0.7	1.6	6.0	32.9	52.0	84.9	1.9	1.3	23.8
2033	Canned fruits and vegetables-----	-	8	6	0.9	9.3	0.7	1.5	5.4	29.5	48.4	77.9	(D)	(NA)	(NA)
35	Machinery, except electrical--	E1	17	5	0.6	6.4	0.4	0.8	4.0	13.1	10.0	23.2	0.3	(NA)	(NA)
	Westchester County-----	-	1 450	433	82.2	942.0	28.9	55.2	309.7	1 600.9	2 250.4	3 853.4	66.4	67.0	1 080.2
20	Food and kindred products---	-	70	20	2.3	32.2	1.6	3.1	20.1	147.3	235.9	384.9	7.6	3.4	97.6

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employ-ees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employ-ees or more (no.)	Num-ber (1,000)	Payroll (million dollars)	Num-ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Westchester County—Con.														
23	Apparel and other textile products -----	E1	138	55	4.5	34.9	3.8	6.3	23.5	63.1	59.4	122.7	1.4	5.8	57.0
2335	Women's and misses' dresses -----	E2	59	28	1.7	10.9	1.6	2.7	9.3	18.9	5.1	24.0	0.3	(NA)	(NA)
25	Furniture and fixtures -----	E4	33	5	0.5	4.8	0.4	0.7	3.6	10.1	9.1	19.0	(D)	0.7	8.2
27	Printing and publishing -----	-	296	49	8.7	113.1	2.5	4.6	26.3	393.6	201.5	602.3	9.0	7.0	241.9
2711	Newspapers -----	-	22	5	1.6	15.4	0.4	0.7	4.1	38.0	10.0	48.0	0.6	(NA)	(NA)
2741	Miscellaneous publishing -----	E3	32	6	0.5	4.9	0.2	0.3	1.4	11.4	5.3	16.7	0.3	(NA)	(NA)
275	Commercial printing -----	E2	135	22	1.5	19.4	1.2	2.0	13.4	37.8	23.2	60.9	3.9	1.6	27.0
2752	Commercial printing, lithographic -----	E2	55	11	0.7	10.7	0.5	0.9	7.1	19.2	12.6	31.8	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	71	20	2.5	39.3	0.9	1.7	8.8	125.8	97.6	224.1	4.5	2.0	97.5
30	Rubber and miscellaneous plastics products -----	E1	50	22	1.5	17.6	1.1	1.9	10.3	32.6	39.1	71.9	3.5	2.1	32.6
31	Leather and leather products -----	-	13	6	0.8	5.9	0.7	1.4	4.6	12.1	16.9	29.2	0.2	(NA)	(NA)
32	Stone, clay, and glass products -----	E2	43	12	0.8	10.8	0.6	1.2	7.0	22.8	24.9	47.9	3.2	0.9	17.6
33	Primary metal industries -----	-	21	14	2.1	28.7	1.5	3.1	17.4	83.3	296.9	378.9	3.3	3.1	41.1
35	Machinery, except electrical --	E1	129	20	2.7	39.2	1.7	3.3	21.4	61.2	41.4	102.0	3.3	3.6	47.9
359	Miscellaneous machinery, except electrical -----	E3	59	6	0.5	5.7	0.4	0.7	4.1	8.9	4.4	13.3	0.7	0.7	7.1
3599	Machinery, except electrical, n.e.c. -----	E3	59	6	0.5	5.7	0.4	0.7	4.1	8.9	4.4	13.3	0.7	(NA)	(NA)
36	Electric and electronic equipment -----	E1	123	50	7.7	104.5	4.8	9.3	48.0	251.0	143.6	393.4	10.6	6.2	101.4
366	Communication equipment -	-	16	7	0.6	8.7	0.4	0.7	4.8	16.3	10.0	26.1	0.5	1.2	23.0
369	Miscellaneous electrical equipment and supplies --	-	19	11	2.4	44.7	1.1	1.9	14.4	130.5	50.4	180.4	4.5	0.9	15.0
38	Instruments and related products -----	-	66	27	2.3	29.7	1.4	2.6	12.7	72.0	84.2	153.0	2.6	2.8	52.8
382	Measuring and controlling devices -----	E2	12	8	0.5	6.7	0.3	0.6	3.1	12.2	5.2	17.1	1.5	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	E1	88	17	1.5	14.3	1.2	2.2	8.2	28.7	26.8	55.7	1.4	1.9	23.4
--	Administrative and auxiliary --	-	72	49	16.0	339.1	-	-	-	-	-	-	-	(NA)	(NA)
	Wyoming County -----	-	48	22	3.6	37.2	3.0	5.8	27.9	90.2	108.4	200.1	5.2	3.9	50.0
36	Electric and electronic equipment -----	-	4	4	1.9	19.1	1.6	3.2	15.1	49.5	46.9	96.7	(D)	2.1	26.4
	Yates County-----	-	21	8	0.8	8.7	0.6	1.2	5.2	19.8	28.7	47.6	0.9	1.0	12.1

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
² Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Akron -----	-	10	7	0.9	12.7	0.6	1.2	7.4	29.4	17.7	46.6	1.1	1.3	21.3
	Albany -----	-	105	35	5.1	73.4	2.9	5.8	34.4	152.6	169.0	320.2	4.4	6.7	146.7
20	Food and kindred products --	-	18	9	1.6	23.7	1.1	2.3	14.3	43.4	106.4	149.5	1.8	2.7	80.6
27	Printing and publishing -----	-	37	8	1.6	24.7	0.6	1.1	7.5	59.2	18.1	76.6	1.3	(NA)	(NA)
	Amityville -----	-	49	12	0.8	7.9	0.6	1.1	4.8	12.7	11.7	24.3	0.4	1.4	16.3
	Ardsley -----	-	6	3	1.2	24.2	0.1	0.1	0.7	2.0	1.0	3.1	0.1	(NA)	(NA)
	Auburn -----	-	64	25	4.6	56.1	3.0	5.7	31.1	103.5	133.0	240.3	8.5	5.2	104.1
	Baldwinsville -----	-	11	8	1.6	23.4	1.1	2.0	13.3	54.1	78.0	131.3	(D)	1.0	19.5
	Batavia -----	-	46	23	2.8	35.0	2.0	3.7	21.0	58.3	94.6	157.6	3.5	4.0	38.7
35	Machinery, except electrical --	-	9	3	0.8	10.8	0.5	1.0	6.3	18.9	24.4	44.6	(D)	(NA)	(NA)
	Beacon -----	-	24	15	2.1	23.6	1.7	3.6	17.0	49.3	62.7	111.5	1.8	(D)	(D)
	Binghamton -----	-	116	42	8.4	92.4	6.0	11.1	57.9	165.6	193.8	367.8	11.8	12.1	195.0
35	Machinery, except electrical --	-	13	4	1.9	19.8	1.5	2.6	13.7	31.8	33.8	64.9	(D)	1.0	14.9
36	Electric and electronic equipment -----	-	11	5	0.8	6.9	0.6	1.0	4.3	16.7	8.2	25.4	0.6	3.7	61.4
	Brentwood (U) -----	-	17	8	0.5	4.4	0.4	0.7	2.9	7.8	9.0	16.8	0.3	0.5	5.2
	Brockport -----	-	11	3	1.5	18.9	1.2	2.4	15.0	58.0	36.4	94.6	2.1	1.4	34.3
	Buffalo -----	-	725	271	46.4	592.5	33.4	66.4	458.8	1 445.1	1 864.8	3 282.1	79.7	53.2	1 052.1
20	Food and kindred products --	-	91	42	6.2	84.8	4.3	8.7	54.8	317.8	475.6	793.2	11.1	8.1	213.0
205	Bakery products -----	-	22	8	1.1	11.5	0.7	1.3	6.6	26.4	19.8	46.2	2.4	(NA)	(NA)
23	Apparel and other textile products -----	-	30	7	2.2	21.8	1.9	3.7	18.0	40.5	34.6	74.2	(D)	(NA)	(NA)
25	Furniture and fixtures -----	-	17	5	0.5	6.0	0.4	0.8	4.4	10.8	6.0	16.5	0.3	0.7	10.0
26	Paper and allied products ---	-	28	21	1.7	18.8	1.4	2.6	12.1	32.3	39.2	72.4	1.3	1.6	24.4
27	Printing and publishing -----	-	123	23	4.1	67.1	2.2	4.2	33.1	115.5	62.3	178.2	8.4	4.6	78.4
2752	Commercial printing, lithographic -----	-	38	12	1.4	23.9	0.8	1.5	11.8	34.4	29.6	64.3	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	34	19	2.4	34.8	1.2	2.4	15.5	112.9	79.5	192.8	5.8	3.5	91.4
30	Rubber and miscellaneous plastics products -----	-	24	14	1.3	14.7	0.9	1.8	7.9	31.0	26.9	57.3	1.2	1.9	32.5
3079	Miscellaneous plastics products -----	-	17	10	0.7	7.9	0.5	1.1	4.6	17.4	13.9	31.1	0.9	(NA)	(NA)
32	Stone, clay, and glass products -----	-	16	4	1.0	11.6	0.8	1.6	8.3	24.9	16.8	40.7	(D)	0.9	11.0
33	Primary metal industries -----	-	23	18	5.8	103.1	4.7	9.2	79.6	155.0	430.9	577.8	13.0	5.3	92.4
331	Blast furnace and basic steel products -----	-	7	7	3.9	71.8	3.2	6.0	54.6	91.2	291.1	372.8	11.1	(NA)	(NA)
34	Fabricated metal products ---	E1	92	35	2.5	32.7	2.0	3.7	22.1	60.9	45.0	105.0	5.0	3.8	71.5
35	Machinery, except electrical --	-	99	38	6.3	92.9	4.1	8.3	55.8	200.0	109.4	300.9	5.9	7.0	131.9
355	Special industry machinery --	-	11	7	0.7	10.5	0.5	0.9	6.1	24.7	13.4	37.9	0.6	(NA)	(NA)
3551	Food products -----	-	6	4	0.5	6.7	0.3	0.6	3.5	15.0	8.8	23.7	0.4	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E1	34	9	0.5	6.0	0.4	0.7	4.0	11.4	4.3	15.8	0.8	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
38	Buffalo—Con.														
	Instruments and related products -----	-	17	6	0.5	6.9	0.3	0.6	3.6	12.1	25.3	37.3	1.0	(NA)	(NA)
--	Administrative and auxiliary --	-	17	8	0.7	14.0	-	-	-	-	-	-	-	(NA)	(NA)
	Canandaigua -----	-	16	7	1.2	12.9	0.9	1.7	7.8	39.5	50.1	88.3	4.0	0.7	13.3
	Canastota -----	-	16	5	0.5	5.4	0.4	0.8	4.5	15.8	37.5	54.3	0.9	0.7	11.8
	Central Islip (U) -----	-	53	15	1.0	11.1	0.7	1.2	6.5	26.2	35.9	60.2	0.9	(NA)	(NA)
	Cobleskill -----	-	16	5	0.6	4.6	0.4	0.8	2.9	9.6	9.0	17.6	0.7	(NA)	(NA)
	Cohoes -----	-	30	13	1.7	16.5	1.4	2.8	12.5	31.7	66.2	96.0	1.7	2.3	27.6
	Cortland -----	-	35	11	2.4	23.7	1.7	3.4	15.3	31.9	63.5	101.8	1.5	3.8	57.8
	Deer Park (U) -----	-	226	47	7.4	97.0	5.9	11.2	71.5	214.5	109.4	321.6	10.9	6.2	117.7
34	Fabricated metal products ---	E2	43	10	0.7	7.4	0.5	1.0	4.9	13.9	11.1	24.9	0.6	0.5	6.3
35	Machinery, except electrical --	E3	50	6	0.5	6.6	0.3	0.7	4.1	12.4	6.0	18.2	0.4	(NA)	(NA)
	Depew -----	-	30	9	1.9	26.9	1.6	2.9	21.7	43.5	29.3	71.8	2.0	3.2	50.3
	Dobbs Ferry -----	-	21	6	0.8	14.6	0.1	0.3	1.1	5.9	4.6	10.3	0.2	(NA)	(NA)
	Dolgeville -----	-	9	4	0.8	6.3	0.8	1.5	4.4	12.6	8.8	22.1	0.3	1.1	12.1
	Dunkirk -----	-	38	21	4.2	65.6	3.4	6.6	51.9	150.0	189.3	337.3	22.0	3.6	52.7
20	Food and kindred products --	-	9	8	1.0	11.7	0.7	1.3	6.8	46.0	80.2	126.1	3.4	0.9	13.5
	East Aurora -----	-	24	5	2.2	26.2	1.5	2.7	13.5	37.4	34.0	71.6	(D)	(D)	(D)
	East Rochester -----	-	14	6	0.7	5.9	0.5	1.1	3.8	16.4	11.2	27.1	0.5	0.9	14.3
	Elmira -----	-	49	22	4.8	59.3	3.2	6.4	36.1	131.3	82.7	211.4	6.2	5.9	85.5
27	Printing and publishing -----	-	11	5	0.6	6.1	0.3	0.6	3.5	14.9	6.8	21.7	(D)	0.8	11.1
35	Machinery, except electrical --	-	5	4	1.2	16.4	0.9	1.7	10.8	43.5	18.0	59.9	(D)	(NA)	(NA)
	Elmira Heights -----	-	11	7	1.2	16.4	0.8	1.5	9.9	32.3	30.0	61.6	1.2	(D)	(D)
	Falconer -----	-	21	9	1.4	15.4	1.1	2.0	10.5	33.9	23.4	55.6	(D)	1.8	28.7
	Farmingdale -----	-	88	25	7.5	129.0	4.8	9.0	72.5	246.9	158.7	377.6	12.0	3.9	63.3
	Fayetteville -----	-	13	6	0.6	6.8	0.5	0.9	5.3	11.7	8.5	20.0	0.8	0.6	8.7
	Freeport -----	-	161	43	2.9	32.9	2.2	4.3	20.5	73.7	120.0	191.8	3.7	3.0	43.9
	Garden City -----	-	36	12	3.0	49.2	1.2	2.3	16.6	105.0	53.4	157.4	(D)	5.2	93.2
	Geneva -----	-	20	8	1.0	13.9	0.8	1.5	10.1	30.7	25.8	58.1	0.8	1.5	23.1
	Glen Cove -----	-	80	24	4.7	53.8	3.1	6.1	28.2	122.7	110.6	229.8	7.6	4.3	90.2
36	Electric and electronic equipment -----	-	6	4	1.7	20.3	1.2	2.4	11.6	46.4	28.2	74.1	(D)	(NA)	(NA)
	Glens Falls -----	-	44	18	3.1	38.0	2.4	4.6	27.2	88.2	105.9	193.0	(D)	4.4	73.5
	Gloversville -----	-	91	34	4.1	36.2	3.4	6.7	26.2	78.0	105.3	183.7	3.4	4.0	51.2
22	Textile mill products -----	-	8	3	0.5	3.9	0.4	0.9	2.8	15.7	12.9	29.7	(D)	(NA)	(NA)
31	Leather and leather products -----	-	46	23	2.6	22.4	2.2	4.2	17.0	39.1	69.6	109.5	(D)	2.4	24.8
	Great Neck Plaza -----	-	33	8	0.6	8.1	0.3	0.6	2.4	5.0	3.9	8.9	0.1	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Harrison -----	-	13	4	0.7	8.9	(Z)	0.1	0.5	2.2	1.5	3.8	0.1	(NA)	(NA)
	Hempstead -----	-	63	17	1.1	11.3	0.7	1.7	5.3	25.7	27.5	52.8	0.6	1.3	23.3
	Herkimer -----	-	11	7	0.5	5.9	0.3	0.6	2.8	9.9	10.8	20.5	(D)	(D)	(D)
	Hicksville (U) -----	-	137	45	5.1	59.5	3.3	6.4	31.6	122.2	116.6	243.9	8.3	4.3	87.7
27	Printing and publishing -----	E2	32	5	0.5	5.0	0.3	0.6	2.5	8.4	4.3	12.7	0.9	(NA)	(NA)
36	Electric and electronic equipment -----	-	15	10	2.0	23.8	1.1	2.0	10.4	49.3	37.7	92.8	3.0	1.6	35.9
367	Electronic components and accessories -----	-	8	4	1.2	13.8	0.7	1.3	6.5	32.0	23.4	64.3	(D)	(NA)	(NA)
	Horseheads -----	-	19	11	3.6	44.9	2.4	4.8	27.0	71.9	101.6	173.6	2.5	4.3	73.6
	Hudson -----	-	35	12	1.1	11.1	0.8	1.6	6.8	36.3	24.8	60.6	0.8	1.3	21.3
	Hudson Falls -----	-	15	6	2.2	30.5	1.7	3.3	18.7	64.1	50.7	115.4	(D)	2.4	43.4
	Huntington Station (U) -----	-	67	12	1.1	12.3	0.8	1.6	7.0	21.7	17.2	39.7	1.2	0.8	10.1
36	Electric and electronic equipment -----	-	9	4	0.5	5.8	0.4	0.8	3.1	9.6	4.9	15.2	0.4	(NA)	(NA)
	Jamestown -----	-	106	39	6.1	74.7	4.1	8.5	47.1	132.9	90.4	223.1	6.5	9.1	145.0
25	Furniture and fixtures -----	-	21	11	1.2	11.5	1.0	1.9	8.7	20.1	13.6	33.6	0.3	1.5	18.4
2511	Wood household furniture -----	-	9	6	0.7	5.9	0.6	1.2	4.7	9.8	7.9	17.8	0.1	(NA)	(NA)
34	Fabricated metal products ---	-	22	8	1.7	20.6	1.2	2.6	14.3	38.9	17.9	56.7	1.4	2.9	49.6
344	Fabricated structural metal products -----	-	7	3	0.6	7.0	0.3	0.7	4.3	11.2	6.6	17.7	(D)	(NA)	(NA)
35	Machinery, except electrical --	-	10	6	1.3	18.4	0.8	1.7	11.4	29.4	9.8	39.1	1.4	2.2	38.1
	Kingston -----	-	72	27	1.9	17.5	1.5	2.9	12.3	36.4	21.6	57.4	0.8	(D)	(D)
	Lakewood -----	-	10	4	0.5	7.8	0.3	0.6	3.7	12.5	15.3	26.3	(D)	(NA)	(NA)
	Lancaster -----	-	20	7	1.0	12.6	0.7	1.3	7.0	25.8	17.4	42.8	1.2	1.0	17.0
	Lindenhurst -----	-	103	27	2.1	21.0	1.6	2.9	13.7	32.7	37.2	71.3	3.4	1.9	23.3
36	Electric and electronic equipment -----	-	7	3	0.5	4.5	0.3	0.5	2.0	5.8	8.8	14.8	0.5	(NA)	(NA)
	Little Falls -----	-	23	10	1.3	12.1	1.0	2.1	9.3	29.0	30.0	64.2	2.4	2.1	30.4
	Lockport -----	-	51	23	11.4	205.0	9.3	19.0	161.9	757.3	495.2	1 245.6	31.3	11.0	458.3
	Lynbrook -----	-	80	26	1.5	15.1	1.2	2.3	9.3	28.6	34.2	62.6	0.8	1.7	23.6
	Malone -----	-	17	5	0.6	3.7	0.5	0.8	2.9	9.7	9.5	19.1	0.2	0.6	6.5
	Mamaroneck -----	-	55	16	1.7	19.8	1.4	2.6	13.1	34.9	77.8	112.5	1.6	1.8	23.6
36	Electric and electronic equipment -----	E1	6	2	0.8	8.4	0.6	1.2	5.7	9.5	5.6	15.2	(D)	0.8	9.4
	Manlius -----	-	14	6	0.7	8.0	0.6	1.1	4.9	13.8	13.4	27.6	0.6	0.7	9.3
	Medina -----	-	21	9	1.9	18.9	1.6	3.2	15.4	58.4	42.0	99.6	1.1	1.6	31.8
	Middletown -----	-	55	19	2.7	26.9	1.8	3.4	15.1	126.7	49.6	175.7	2.1	2.4	48.5
30	Rubber and miscellaneous plastics products -----	E5	4	3	0.6	5.8	0.5	1.0	4.1	11.8	9.7	21.3	(D)	(NA)	(NA)
	Mineola -----	-	97	26	2.0	21.6	1.5	3.0	13.5	50.0	49.4	97.6	2.1	2.4	42.8
34	Fabricated metal products ---	-	16	6	0.6	6.5	0.6	1.1	4.6	18.6	18.1	35.6	(D)	0.8	13.4
	Mount Kisco -----	-	22	7	0.9	9.6	0.6	1.2	5.6	17.6	15.0	33.2	1.4	0.7	9.8

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
		E ¹													
233	Mount Vernon -----	-	290	103	8.7	99.7	6.2	11.5	52.3	212.0	330.1	538.3	9.4	8.9	146.8
	Women's and misses' outerwear -----	E3	21	15	0.8	5.4	0.7	1.2	4.9	7.1	1.3	8.3	0.2	(NA)	(NA)
36	Electric and electronic equipment -----	E1	34	17	2.3	23.5	1.6	3.1	13.2	51.8	48.6	98.8	1.8	(NA)	(NA)
399	Miscellaneous manufactures -----	-	13	5	0.5	2.9	0.4	0.9	2.0	6.8	7.1	14.0	(Z)	(NA)	(NA)
	Newark -----	-	18	8	1.3	12.1	1.0	2.1	8.4	18.1	21.8	40.0	0.3	1.1	15.6
	Newburgh -----	-	80	43	3.5	32.5	2.8	5.2	22.7	66.3	63.7	127.5	3.2	5.2	66.5
23	Apparel and other textile products -----	E1	18	13	0.7	4.8	0.7	1.2	4.0	7.2	2.7	9.7	(D)	1.1	8.8
31	Leather and leather products -----	-	7	6	0.7	4.7	0.6	1.1	3.5	7.1	7.1	13.8	(D)	1.1	8.4
317	Handbags and other personal leather goods -----	-	7	6	0.7	4.7	0.6	1.1	3.5	7.1	7.1	13.8	(D)	(NA)	(NA)
3171	Women's handbags and purses -----	-	7	6	0.7	4.7	0.6	1.1	3.5	7.1	7.1	13.8	(D)	(NA)	(NA)
	New Hyde Park -----	-	54	21	1.8	22.0	1.3	2.5	14.6	41.9	27.5	68.9	1.1	1.5	30.0
36	Electric and electronic equipment -----	-	5	5	0.5	5.7	0.3	0.6	3.2	11.2	6.1	17.3	0.2	(NA)	(NA)
	New Rochelle -----	-	114	34	3.5	44.7	2.2	3.9	22.4	102.6	126.0	228.0	2.9	3.7	52.6
	New York -----	-	21 460	6 607	609.7	7 640.0	385.9	710.1	3 386.6	14 606.2	15 116.1	29 559.7	560.4	757.5	11 579.4
20	Food and kindred products -----	-	707	219	25.7	359.9	17.4	34.9	213.4	1 090.8	1 787.7	2 875.2	65.5	38.4	1 017.5
201	Meat products -----	E1	107	38	3.3	52.8	2.6	5.6	39.5	119.0	296.6	416.9	6.6	(NA)	(NA)
2013	Sausages and other prepared meats -----	-	77	33	2.8	47.3	2.2	4.8	35.0	107.7	250.2	359.8	4.9	(NA)	(NA)
202	Dairy products -----	-	59	22	2.4	41.2	1.3	2.9	22.5	96.1	256.0	350.8	3.6	(NA)	(NA)
2024	Ice cream and frozen desserts -----	-	24	8	0.8	14.2	0.5	1.0	8.2	36.5	61.1	97.6	1.9	(NA)	(NA)
2026	Fluid milk -----	-	24	11	1.4	25.6	0.7	1.6	13.3	56.5	183.4	238.7	1.6	(NA)	(NA)
203	Preserved fruits and vegetables -----	E3	61	26	1.6	17.2	1.3	2.3	10.5	46.9	67.7	114.7	(D)	(NA)	(NA)
2035	Pickles, sauces, and salad dressings -----	E2	25	11	0.7	7.8	0.5	0.9	4.1	18.0	30.2	48.2	0.7	(NA)	(NA)
2038	Frozen specialties -----	-	13	9	0.6	5.9	0.4	0.8	3.8	18.5	21.1	39.6	0.5	(NA)	(NA)
2045	Blended and prepared flour -----	-	4	4	0.5	10.6	0.3	0.8	5.7	31.5	43.6	74.5	(D)	(NA)	(NA)
205	Bakery products -----	E1	197	45	7.2	97.1	4.3	8.1	49.4	231.8	162.1	394.0	5.7	(NA)	(NA)
206	Sugar and confectionery products -----	-	50	19	4.1	52.0	3.1	6.0	35.7	221.3	326.8	547.1	27.3	(NA)	(NA)
2065	Confectionery products -----	E1	38	13	1.4	13.3	1.1	2.3	8.6	38.4	43.5	81.6	1.9	(NA)	(NA)
208	Beverages -----	-	78	20	2.9	43.3	1.7	3.4	22.3	175.9	200.4	376.4	6.0	(NA)	(NA)
2086	Bottled and canned soft drinks -----	-	45	12	2.0	30.1	1.1	2.2	15.8	66.2	116.0	182.5	4.2	(NA)	(NA)
2087	Flavoring extracts and sirups, n.e.c. -----	-	20	6	0.5	7.0	0.3	0.7	3.3	89.9	56.1	145.5	0.8	(NA)	(NA)
209	Miscellaneous foods and kindred products -----	-	137	40	3.3	39.1	2.5	5.2	23.9	142.3	329.0	468.1	10.2	(NA)	(NA)
2098	Macaroni and spaghetti -----	-	31	7	0.8	8.9	0.6	1.5	6.5	33.0	36.4	69.4	0.7	(NA)	(NA)
2099	Food preparations, n.e.c. -----	-	57	13	1.3	15.8	1.0	2.2	9.1	40.2	67.9	107.8	8.1	(NA)	(NA)
22	Textile mill products -----	E2	959	391	28.2	253.9	24.0	46.3	184.8	465.6	788.4	1 255.5	42.8	36.5	507.6
2221	Weaving mills, manmade fiber and silk -----	E2	15	5	0.6	6.3	0.4	0.9	5.0	7.8	11.7	20.2	1.1	(NA)	(NA)
2241	Narrow fabric mills -----	E2	42	9	0.8	7.0	0.7	1.4	5.2	14.7	12.7	27.3	0.4	(NA)	(NA)
225	Knitting mills -----	E2	638	301	20.7	180.3	17.8	33.6	130.3	331.7	620.2	949.4	31.3	(NA)	(NA)
2253	Knit outerwear mills -----	E2	418	223	14.4	122.0	12.5	22.9	89.3	216.4	308.0	520.5	14.5	(NA)	(NA)
2257	Circular knit fabric mills -----	E1	119	45	3.8	38.3	3.2	6.3	27.2	77.4	223.2	302.9	(D)	(NA)	(NA)
2258	Warp knit fabric mills -----	-	31	12	1.0	9.9	0.8	1.7	5.7	22.9	71.5	93.5	(D)	(NA)	(NA)
2259	Knitting mills, n.e.c. -----	E6	57	16	0.9	6.3	0.9	1.7	5.0	8.8	11.4	20.2	(D)	(NA)	(NA)

See footnotes at end of table.

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SIC code	City and industry		1977											1972	
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			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
	New York—Con.														
22	Textile mill products—Con.														
226	Textile finishing, except wool -----	E2	68	28	1.9	20.6	1.6	3.5	16.2	36.7	47.0	85.3	2.5	(NA)	(NA)
2262	Finishing plants, synthetics -----	E1	30	18	1.1	12.7	1.0	2.2	9.9	24.0	36.3	61.9	1.9	(NA)	(NA)
2269	Finishing plants, n.e.c. ---	E1	20	7	0.5	5.6	0.5	1.0	4.5	9.4	6.2	15.6	0.2	(NA)	(NA)
228	Yarn and thread mills -----	E2	42	7	1.4	13.3	1.1	2.2	9.3	20.5	30.9	54.5	(D)	(NA)	(NA)
2281	Yarn mills, except wool ---	E1	17	4	1.1	10.7	0.8	1.7	7.4	15.8	22.8	41.7	(D)	(NA)	(NA)
229	Miscellaneous textile goods -----	E3	116	31	1.7	16.2	1.4	2.9	11.1	32.3	41.0	72.7	2.2	(NA)	(NA)
2299	Textile goods, n.e.c. ----	E4	74	17	1.0	8.3	0.8	1.6	6.1	17.4	22.5	39.4	1.5	(NA)	(NA)
23	Apparel and other textile products -----	E2	6 928	2 699	180.7	1 496.5	147.9	257.9	986.9	3 424.2	4 866.6	8 216.8	67.6	207.1	2 770.7
232	Men's and boys' furnishings -----	E1	423	178	18.5	144.1	14.1	25.3	89.8	347.0	599.8	917.7	12.0	(NA)	(NA)
2321	Men's and boys' shirts and nightwear -----	-	130	58	4.6	39.6	3.6	6.7	20.4	139.1	320.0	427.1	1.2	(NA)	(NA)
2323	Men's and boys' neckwear -----	E3	83	33	2.2	21.2	1.8	3.1	13.6	41.9	40.9	81.0	1.6	(NA)	(NA)
2327	Men's and boys' separate trousers -----	E1	92	31	7.5	52.3	5.2	8.8	34.1	107.8	157.7	267.6	3.5	(NA)	(NA)
2328	Men's and boys' work clothing -----	E3	23	14	0.6	4.4	0.5	0.9	3.5	8.6	11.0	19.8	0.2	(NA)	(NA)
2329	Men's and boys' clothing, n.e.c. -----	E1	87	39	3.3	25.1	2.9	5.5	17.2	46.7	66.0	114.3	5.5	(NA)	(NA)
233	Women's and misses' outerwear -----	E2	3 626	1 590	94.0	764.6	77.1	132.4	499.2	1 857.3	2 493.3	4 319.2	34.2	(NA)	(NA)
2331	Women's and misses' blouses and waists -----	-	324	176	11.1	93.5	9.0	15.2	57.3	315.3	412.3	724.3	5.7	(NA)	(NA)
2335	Women's and misses' dresses -----	E3	2 179	832	47.3	364.6	39.2	67.3	244.5	770.7	932.2	1 693.5	15.7	(NA)	(NA)
2337	Women's and misses' suits and coats -----	E1	584	304	18.4	168.4	14.8	26.1	108.9	395.1	584.2	975.2	5.1	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c. -----	E2	539	278	17.3	138.1	14.1	23.8	88.5	376.1	564.6	926.2	7.6	(NA)	(NA)
234	Women's and children's undergarments -----	E1	304	151	10.3	84.1	8.1	14.2	47.1	198.3	304.7	501.5	1.9	(NA)	(NA)
2341	Women's and children's underwear -----	E1	247	123	7.9	64.4	6.2	10.7	37.0	152.7	248.5	398.5	1.4	(NA)	(NA)
2342	Brassieres and allied garments -----	-	57	28	2.4	19.7	1.9	3.5	10.1	45.6	56.2	103.0	0.5	(NA)	(NA)
235	Hats, caps, and millinery ---	E4	170	50	2.9	22.0	2.5	4.4	15.6	38.4	42.4	80.4	0.6	(NA)	(NA)
236	Children's outerwear -----	E1	284	149	9.8	75.4	8.1	14.6	51.6	167.3	239.5	406.0	2.1	(NA)	(NA)
2361	Children's dresses and blouses -----	E1	139	82	5.2	41.6	4.2	7.7	27.3	98.9	139.3	235.3	1.1	(NA)	(NA)
2363	Children's coats and suits -----	E1	42	18	1.2	10.0	1.0	1.7	6.9	21.0	34.3	54.6	0.4	(NA)	(NA)
2369	Children's outerwear, n.e.c. -----	E2	103	49	3.4	23.9	2.9	5.2	17.4	47.4	66.0	116.0	0.6	(NA)	(NA)
238	Miscellaneous apparel and accessories -----	E1	443	182	11.2	91.8	9.5	16.5	61.9	198.5	260.5	452.8	6.1	(NA)	(NA)
2384	Robes and dressing gowns -----	E1	66	41	3.1	23.8	2.6	4.5	16.5	63.9	84.9	146.1	1.5	(NA)	(NA)
2386	Leather and sheep lined clothing -----	E1	109	33	2.0	17.8	1.7	2.9	13.1	29.9	55.3	84.3	0.3	(NA)	(NA)
2387	Apparel belts -----	E1	137	52	3.1	24.9	2.6	4.3	15.8	47.2	46.8	92.4	0.9	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	E2	996	289	20.8	179.6	17.5	31.3	122.6	343.4	507.3	848.8	7.9	(NA)	(NA)
2391	Curtains and draperies ---	-	132	33	2.2	19.9	1.9	3.3	13.7	47.0	101.1	147.6	0.4	(NA)	(NA)
2392	House furnishings, n.e.c. -----	E1	233	78	6.9	52.7	5.7	10.6	34.7	102.4	200.3	301.8	2.8	(NA)	(NA)
2394	Canvas and related products -----	E2	30	6	0.6	4.8	0.5	0.9	3.5	7.1	6.9	14.1	0.2	(NA)	(NA)
2395	Pleating and stitching ---	E2	231	71	4.6	38.8	3.9	6.8	26.5	73.7	77.4	150.0	1.8	(NA)	(NA)
2396	Automotive and apparel trimmings -----	E3	231	64	3.9	42.3	3.3	5.9	29.8	71.5	79.2	151.6	1.7	(NA)	(NA)
2399	Fabricated textile products, n.e.c. -----	E3	100	28	1.9	15.4	1.6	2.7	10.7	29.4	28.7	57.9	0.7	(NA)	(NA)
24	Lumber and wood products ---	E3	294	44	3.3	34.1	2.8	5.4	25.1	62.7	55.7	117.9	(D)	5.4	64.6
243	Millwork, plywood, and structural members -----	E3	105	18	1.4	15.5	1.1	2.1	11.7	26.8	26.4	53.1	1.3	(NA)	(NA)
2431	Millwork -----	E4	55	9	0.6	7.4	0.5	1.0	5.4	13.9	17.9	31.9	0.9	(NA)	(NA)
249	Miscellaneous wood products -----	E2	121	14	1.3	12.0	1.1	2.0	8.4	25.9	19.1	44.7	1.3	(NA)	(NA)
25	Furniture and fixtures -----	E2	642	142	12.1	129.5	9.7	18.6	89.6	229.9	203.0	429.7	8.9	14.8	204.7

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
	New York—Con.														
25	Furniture and fixtures—Con.														
251	Household furniture -----	E4	345	60	4.7	43.2	4.0	7.4	30.6	74.5	77.7	151.3	3.4	(NA)	(NA)
2511	Wood household furniture -----	E4	166	27	2.0	16.9	1.8	3.4	12.9	29.5	26.2	55.0	2.0	(NA)	(NA)
2512	Upholstered household furniture -----	E5	62	7	0.6	6.2	0.5	0.9	4.5	10.4	7.6	17.9	0.3	(NA)	(NA)
2514	Metal household furniture -----	E3	56	14	1.2	11.6	1.0	1.9	7.6	20.2	24.1	44.3	0.7	(NA)	(NA)
2515	Mattresses and bedsprings -----	E3	44	10	0.6	7.0	0.5	0.9	4.4	11.2	16.8	27.9	0.2	(NA)	(NA)
252	Office furniture -----	E1	32	17	2.1	21.7	1.6	3.2	14.3	42.9	25.5	66.9	3.8	(NA)	(NA)
2522	Metal office furniture -----	E1	13	9	1.6	17.3	1.2	2.5	10.8	35.5	20.5	54.6	(D)	(NA)	(NA)
254	Partitions and fixtures -----	E1	163	50	4.1	50.7	3.3	6.3	36.1	83.1	66.5	148.9	(D)	(NA)	(NA)
2541	Wood partitions and fixtures -----	E1	90	29	2.2	29.9	1.8	3.4	21.9	44.4	30.1	74.3	(D)	(NA)	(NA)
2542	Metal partitions and fixtures -----	E1	73	21	1.9	20.7	1.5	2.9	14.2	38.7	36.3	74.6	0.5	(NA)	(NA)
259	Miscellaneous furniture and fixtures -----	E1	95	15	1.2	13.4	0.9	1.6	8.2	28.8	32.3	60.9	0.6	(NA)	(NA)
2591	Drapery hardware and blinds and shades -----	E2	61	7	0.6	6.2	0.5	0.9	3.9	13.8	13.2	26.9	0.4	(NA)	(NA)
2599	Furniture and fixtures, n.e.c. -----	E1	34	8	0.6	7.2	0.4	0.8	4.3	15.0	19.0	34.0	0.2	(NA)	(NA)
26	Paper and allied products ---	E2	370	164	15.3	179.5	12.0	23.6	117.6	345.7	391.4	735.5	23.1	17.9	264.9
264	Miscellaneous converted paper products -----	E3	238	87	8.4	101.3	6.6	12.9	65.6	204.1	250.3	452.9	14.8	(NA)	(NA)
2641	Paper coating and glazing -----	E6	22	7	0.6	9.3	0.5	1.0	6.3	13.8	17.8	31.6	0.5	(NA)	(NA)
2642	Envelopes -----	-	27	18	2.1	24.0	1.6	3.2	16.6	50.5	55.3	105.4	3.0	(NA)	(NA)
2643	Bags, except textile bags -----	E3	46	16	1.2	16.8	0.9	1.7	8.9	31.4	52.8	84.5	4.5	(NA)	(NA)
2645	Die-cut paper and board -----	E1	54	20	1.5	17.8	1.3	2.5	12.5	37.5	38.4	75.5	1.2	(NA)	(NA)
2648	Stationery products -----	E3	23	6	0.6	5.3	0.5	0.8	3.7	13.0	16.9	29.6	0.3	(NA)	(NA)
2649	Converted paper products, n.e.c. -----	E4	61	19	2.4	27.0	1.8	3.6	16.8	55.5	62.5	117.4	5.2	(NA)	(NA)
265	Paperboard containers and boxes -----	E1	128	75	6.8	76.8	5.4	10.5	51.0	138.2	136.8	274.8	7.6	(NA)	(NA)
2651	Folding paperboard boxes -----	E1	38	19	1.4	18.6	1.2	2.3	12.6	34.0	28.9	62.6	0.9	(NA)	(NA)
2652	Setup paperboard boxes -----	E3	32	24	2.0	17.0	1.7	3.1	12.0	29.5	19.1	48.8	1.2	(NA)	(NA)
2653	Corrugated and solid fiber boxes -----	E1	39	26	2.3	29.9	1.7	3.3	18.2	53.6	68.3	121.7	4.5	(NA)	(NA)
2655	Fiber cans, drums, and similar products -----	E1	11	3	0.6	6.8	0.5	1.1	5.0	10.8	7.7	18.5	0.7	(NA)	(NA)
27	Printing and publishing -----	-	3 882	754	99.7	1 598.4	40.6	73.7	592.8	4 650.2	2 561.7	7 223.4	112.6	112.9	3 124.8
2711	Newspapers -----	-	159	38	14.6	295.2	8.9	13.9	171.9	510.2	245.9	755.9	21.9	(NA)	(NA)
2721	Periodicals -----	-	440	120	23.6	406.9	1.6	3.0	27.5	1 689.4	1 039.6	2 718.9	21.5	(NA)	(NA)
273	Books -----	-	409	120	20.1	301.7	2.6	5.3	30.3	1 297.9	647.5	1 971.1	25.7	(NA)	(NA)
2731	Book publishing -----	-	305	92	18.1	275.2	1.2	2.6	13.2	1 253.9	616.2	1 891.6	23.4	(NA)	(NA)
2732	Book printing -----	E1	104	28	1.9	26.5	1.4	2.7	17.1	43.9	31.2	79.5	2.3	(NA)	(NA)
2741	Miscellaneous publishing -----	-	330	37	6.0	77.6	1.2	2.3	10.4	204.2	85.3	289.3	3.4	(NA)	(NA)
275	Commercial printing -----	E2	1 858	256	22.2	329.3	16.5	30.7	223.0	603.1	420.1	1 021.6	26.3	(NA)	(NA)
2751	Commercial printing, letterpress -----	E3	1 005	105	7.7	97.0	5.9	10.7	64.6	177.4	122.6	299.4	9.1	(NA)	(NA)
2752	Commercial printing, lithographic -----	E1	766	139	12.3	200.2	8.9	17.1	133.9	354.9	273.2	626.1	12.9	(NA)	(NA)
2753	Engraving and plate printing -----	-	54	11	2.0	28.8	1.5	2.5	21.9	64.7	19.5	85.3	3.7	(NA)	(NA)
2761	Manifold business forms -----	E1	33	9	0.7	9.5	0.5	1.0	4.6	21.9	17.4	39.0	0.5	(NA)	(NA)
2771	Greeting card publishing -----	E1	30	8	0.9	8.8	0.4	0.8	3.0	20.0	14.8	34.1	0.4	(NA)	(NA)
278	Blankbooks and bookbinding -----	E1	237	70	4.7	50.3	4.1	7.9	38.9	90.7	38.7	129.0	2.9	(NA)	(NA)
2782	Blankbooks and looseleaf binders -----	E1	53	24	1.5	13.1	1.3	2.4	9.4	26.3	20.1	46.4	0.9	(NA)	(NA)
2789	Bookbinding and related work -----	E1	184	46	3.3	37.2	2.8	5.5	29.5	64.4	18.6	82.6	2.1	(NA)	(NA)
279	Printing trade services -----	E1	386	96	6.9	119.2	4.8	8.8	83.2	212.8	52.4	264.4	9.9	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expen- ditures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	New York—Con.														
27	Printing and publishing—Con.														
279	Printing trade services— Con.														
2791	Typesetting -----	E1	248	65	3.9	62.1	2.9	5.3	45.8	110.6	18.5	128.3	4.8	(NA)	(NA)
2793	Photoengraving -----	-	46	13	1.7	32.2	1.0	1.8	20.8	55.7	13.1	68.8	3.2	(NA)	(NA)
28	Chemicals and allied products -----	E1	414	100	10.7	146.4	7.5	14.6	83.2	590.3	518.3	1 098.5	85.5	13.2	514.8
283	Drugs -----	-	41	11	2.5	31.0	2.1	3.8	24.3	209.1	74.5	280.1	(D)	(NA)	(NA)
284	Soaps, cleaners, and toilet goods -----	E1	174	41	4.6	65.5	3.0	6.1	33.2	220.4	239.0	459.3	14.2	(NA)	(NA)
2841	Soap and other detergents -----	-	32	6	1.3	23.1	0.9	1.9	14.9	67.1	126.8	193.8	(D)	(NA)	(NA)
2842	Polishes and sanitation goods -----	-	47	14	1.0	11.4	0.6	1.2	5.2	55.6	44.8	100.4	(D)	(NA)	(NA)
2844	Toilet preparations -----	E2	88	19	2.2	28.7	1.5	2.9	12.6	93.6	62.2	156.0	3.9	(NA)	(NA)
2851	Paints and allied products -----	E2	79	20	1.3	16.3	0.8	1.6	8.3	47.7	63.4	110.3	2.2	(NA)	(NA)
286	Industrial organic chemicals -----	-	20	8	1.1	16.3	0.8	1.7	9.0	67.8	71.4	136.1	3.3	(NA)	(NA)
2869	Industrial organic chemicals, n.e.c. -----	-	12	6	0.7	11.5	0.6	1.2	6.1	51.6	46.1	95.5	2.6	(NA)	(NA)
289	Miscellaneous chemical products -----	E1	79	16	1.0	14.0	0.6	1.2	6.2	30.1	41.0	70.5	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	E2	375	125	9.6	97.0	7.8	14.9	64.8	197.4	218.7	412.4	15.8	12.4	178.6
3079	Miscellaneous plastics products -----	E2	341	118	9.2	92.6	7.5	14.3	61.9	188.3	209.9	394.5	15.5	(NA)	(NA)
31	Leather and leather products -----	E2	464	192	16.3	123.9	14.1	25.3	87.3	249.1	234.6	480.8	(D)	21.7	216.2
314	Footwear, except rubber ---	E1	52	29	3.4	23.2	2.9	5.1	18.5	41.6	33.6	75.3	1.2	(NA)	(NA)
3142	House slippers -----	E1	12	7	0.9	6.0	0.8	1.4	4.6	11.0	10.1	21.2	0.1	(NA)	(NA)
3149	Footwear, except rubber, n.e.c. -----	E6	11	6	0.6	4.0	0.5	0.8	3.2	6.7	5.6	12.3	0.2	(NA)	(NA)
3161	Luggage -----	E2	60	33	3.1	25.2	2.7	4.7	16.9	48.4	43.4	90.8	0.5	(NA)	(NA)
317	Handbags and other personal leather goods ---	E2	239	115	8.5	65.0	7.4	13.6	44.8	139.5	132.8	271.0	(D)	(NA)	(NA)
3171	Women's handbags and purses -----	E2	173	84	6.6	49.6	5.8	10.8	35.6	108.4	103.9	211.8	(D)	(NA)	(NA)
3172	Personal leather goods ---	E2	66	31	2.0	15.4	1.6	2.9	9.2	31.0	28.9	59.1	(D)	(NA)	(NA)
3199	Leather goods, n.e.c. ---	E2	60	10	0.9	6.9	0.7	1.3	4.4	12.7	12.9	24.9	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	E2	258	49	4.1	46.7	3.2	6.2	31.9	102.4	91.9	193.6	7.2	6.2	105.7
3231	Products of purchased glass -----	E2	82	20	1.6	17.6	1.3	2.5	12.2	36.1	30.1	65.9	3.8	(NA)	(NA)
327	Concrete, gypsum, and plaster products -----	E1	62	9	0.7	10.6	0.6	1.1	7.8	20.8	26.7	47.4	1.0	(NA)	(NA)
329	Miscellaneous nonmetallic mineral products -----	E2	61	14	1.3	14.2	1.0	2.0	9.2	36.3	30.5	66.5	2.1	(NA)	(NA)
3291	Abrasive products -----	E3	18	8	0.5	5.9	0.4	0.8	3.7	16.1	14.2	30.2	0.6	(NA)	(NA)
33	Primary metal industries ---	-	155	49	5.7	73.2	4.4	8.4	48.6	158.3	467.7	620.3	6.7	7.3	127.0
331	Blast furnace and basic steel products -----	E2	26	9	0.7	9.3	0.6	1.1	6.6	14.7	23.5	38.8	0.8	(NA)	(NA)
3341	Secondary nonferrous metals -----	-	24	5	1.1	17.7	0.8	1.5	10.7	54.0	256.1	300.7	3.1	(NA)	(NA)
335	Nonferrous rolling and drawing -----	-	24	12	1.8	21.5	1.3	2.5	13.9	42.2	147.6	193.4	0.6	(NA)	(NA)
3357	Nonferrous wire drawing and insulating -----	-	5	5	1.3	15.0	1.0	1.8	10.1	24.3	90.5	119.1	(D)	(NA)	(NA)
336	Nonferrous foundries ---	E1	41	13	1.1	10.5	0.9	1.7	7.1	20.3	17.6	37.0	1.0	(NA)	(NA)
3369	Nonferrous foundries, n.e.c. -----	E1	20	7	0.8	7.2	0.6	1.1	4.6	14.6	13.1	27.0	(D)	(NA)	(NA)
34	Fabricated metal products ---	E2	1 099	315	25.0	284.2	19.6	38.3	187.2	558.5	472.5	1 019.9	25.5	30.6	469.9
342	Cutlery, hand tools, and hardware -----	E1	67	24	2.5	30.0	2.0	3.9	19.9	72.5	43.1	111.2	5.3	(NA)	(NA)
3421	Cutlery -----	-	5	3	0.5	4.8	0.4	0.8	3.1	13.6	6.9	18.5	(D)	(NA)	(NA)
3429	Hardware, n.e.c. -----	E1	45	14	1.7	21.1	1.3	2.5	14.1	52.0	31.3	81.2	2.4	(NA)	(NA)
344	Fabricated structural metal products -----	E1	322	76	6.3	79.1	4.5	9.0	49.5	151.2	129.4	280.9	5.2	(NA)	(NA)
3442	Metal doors, sash, and trim -----	E2	64	21	2.1	21.0	1.5	3.0	15.1	32.5	36.9	69.2	0.9	(NA)	(NA)
3444	Sheet metal work -----	E2	87	29	2.0	25.7	1.4	2.7	15.6	50.4	38.4	89.4	2.4	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	New York—Con.														
34	Fabricated metal products—Con.														
344	Fabricated structural metal products—Con.														
3446	Architectural metal work -	E2	70	11	0.8	10.0	0.5	1.0	6.3	18.4	12.0	30.6	0.7	(NA)	(NA)
345	Screw machine products, bolts, etc. -----	E2	44	18	1.5	17.8	1.2	2.3	11.8	28.0	29.4	56.4	1.5	(NA)	(NA)
3451	Screw machine products -----	E3	28	11	0.7	8.1	0.6	1.3	6.0	14.5	11.6	26.0	0.5	(NA)	(NA)
3452	Bolts, nuts, rivets, and washers -----	E1	16	7	0.8	9.7	0.6	1.1	5.8	13.6	17.8	30.4	0.9	(NA)	(NA)
346	Metal forgings and stampings -----	E1	124	50	4.1	48.4	3.3	6.5	31.7	103.7	100.5	202.7	5.1	(NA)	(NA)
347	Metal services, n.e.c. -----	E3	262	61	4.5	40.3	3.9	7.3	28.6	72.4	34.7	106.6	2.6	(NA)	(NA)
3471	Plating and polishing -----	E3	189	50	3.8	33.7	3.3	6.2	24.0	62.4	27.4	89.3	2.3	(NA)	(NA)
3479	Metal coating and allied services -----	E3	73	11	0.7	6.6	0.6	1.1	4.6	10.1	7.4	17.3	0.3	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	E1	236	71	5.2	57.6	4.1	8.0	37.9	109.4	107.2	211.1	5.3	(NA)	(NA)
3496	Miscellaneous fabricated wire products -----	E2	69	18	1.5	15.3	1.2	2.5	10.8	27.4	25.4	52.6	1.2	(NA)	(NA)
3498	Fabricated pipe and fittings -----	-	15	10	1.0	13.0	0.7	1.4	8.0	23.2	30.1	51.5	1.2	(NA)	(NA)
3499	Fabricated metal products, n.e.c. -----	E3	123	32	1.9	19.9	1.5	2.9	12.7	37.5	34.2	70.8	1.7	(NA)	(NA)
35	Machinery, except electrical --	E1	782	129	13.7	175.1	9.9	18.6	102.8	336.2	263.8	597.1	24.4	17.7	296.3
353	Construction and related machinery -----	E2	33	8	0.7	10.8	0.5	1.0	6.4	23.3	16.7	38.7	0.4	(NA)	(NA)
354	Metalworking machinery ---	E3	185	23	1.7	22.3	1.4	2.7	15.5	37.2	16.1	53.7	2.0	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures -----	E2	142	17	1.3	17.5	1.1	2.2	12.6	28.1	12.3	40.0	1.7	(NA)	(NA)
355	Special industry machinery -	E2	149	32	3.2	42.9	1.9	3.6	21.0	75.8	53.2	126.4	4.5	(NA)	(NA)
3551	Food products machinery -----	E6	22	6	0.5	7.5	0.3	0.7	3.3	14.1	9.6	23.5	1.0	(NA)	(NA)
3552	Textile machinery -----	-	26	5	0.7	8.2	0.3	0.6	3.2	17.3	11.0	28.1	(D)	(NA)	(NA)
3555	Printing trades machinery -----	E2	59	10	0.7	10.2	0.5	1.0	6.2	15.3	14.0	29.1	0.6	(NA)	(NA)
3559	Special industry machinery, n.e.c. -----	E2	34	7	0.5	6.0	0.3	0.6	3.8	10.2	6.9	17.0	0.3	(NA)	(NA)
356	General industrial machinery -----	E1	90	22	1.7	21.4	1.1	2.1	12.4	39.9	33.3	72.1	1.8	(NA)	(NA)
3569	General industrial machinery, n.e.c. -----	-	44	13	1.0	12.6	0.6	1.2	7.1	23.3	21.7	44.2	0.7	(NA)	(NA)
357	Office and computing machines -----	-	21	6	2.5	28.4	1.9	3.7	15.5	65.2	77.6	144.6	1.8	(NA)	(NA)
358	Refrigeration and service machinery -----	E1	61	16	1.9	22.2	1.4	2.4	13.5	43.2	45.2	87.3	(D)	(NA)	(NA)
3585	Refrigeration and heating equipment -----	E1	27	10	1.0	11.9	0.8	1.3	7.9	22.7	27.9	49.6	1.5	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E2	241	21	2.1	26.7	1.7	3.1	18.3	50.8	20.8	72.8	11.7	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E2	239	20	2.1	26.4	1.7	3.0	18.0	50.4	20.8	72.3	11.7	(NA)	(NA)
36	Electric and electronic equipment -----	E1	590	176	24.3	279.4	16.4	31.6	147.3	666.4	478.5	1 118.1	20.7	30.2	501.2
361	Electric distributing equipment -----	E2	16	8	0.7	7.6	0.4	0.8	4.6	11.8	11.7	23.1	0.2	(NA)	(NA)
362	Electrical industrial apparatus -----	-	22	6	1.3	21.5	0.4	0.7	4.0	36.5	25.2	61.0	1.2	(NA)	(NA)
363	Household appliances -----	E2	53	16	1.1	11.7	0.9	1.7	7.7	25.1	19.0	44.4	0.7	(NA)	(NA)
3636	Sewing machines -----	E5	31	10	0.5	6.1	0.3	0.7	4.0	10.8	6.1	16.9	0.4	(NA)	(NA)
364	Electric lighting and wiring equipment -----	E1	159	56	8.0	84.5	6.3	12.4	54.4	186.8	158.3	330.9	5.6	(NA)	(NA)
3645	Residential lighting fixtures -----	E1	94	30	2.0	20.1	1.6	2.9	12.8	42.7	42.1	84.9	0.8	(NA)	(NA)
3646	Commercial lighting fixtures -----	E4	10	8	0.6	7.0	0.5	0.9	4.5	13.2	13.2	26.5	0.2	(NA)	(NA)
365	Radio and TV receiving equipment -----	E1	143	25	3.0	31.0	2.1	4.0	16.8	148.4	97.4	227.5	1.9	(NA)	(NA)
3651	Radio and TV receiving sets -----	-	29	6	1.2	9.9	0.8	1.6	6.3	41.7	50.9	75.1	0.4	(NA)	(NA)
3652	Phonograph records and prerecorded tape --	E1	114	19	1.8	21.2	1.3	2.4	10.5	106.7	46.6	152.4	1.5	(NA)	(NA)
366	Communication equipment -----	-	52	21	4.0	58.6	2.0	4.0	25.3	126.8	72.4	198.6	2.6	(NA)	(NA)
367	Electronic components and accessories -----	E2	94	24	3.5	34.5	2.5	4.5	19.3	66.5	38.1	103.8	2.5	(NA)	(NA)
3677	Electronic coils and transformers -----	-	6	4	0.6	6.2	0.4	0.8	2.7	9.0	3.1	11.9	(D)	(NA)	(NA)
3678	Electronic connectors ---	-	4	3	0.8	6.7	0.6	1.0	4.0	13.3	7.2	19.4	(D)	(NA)	(NA)
3679	Electronic components, n.e.c. -----	E2	72	13	1.8	18.6	1.3	2.5	11.2	38.3	24.8	63.8	1.7	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	New York—Con.														
36	Electric and electronic equipment—Con.														
369	Miscellaneous electrical equipment and supplies --	E1	51	20	2.8	30.0	1.9	3.5	15.4	64.5	56.4	128.7	(D)	(NA)	(NA)
3699	Electrical equipment and supplies, n.e.c. ----	E1	29	10	0.7	5.6	0.5	0.9	3.4	16.3	17.5	33.7	0.5	(NA)	(NA)
37	Transportation equipment ---	E1	128	50	6.7	87.8	5.5	10.9	67.3	156.5	119.6	276.1	4.3	7.6	117.1
372	Aircraft and parts -----	E2	15	7	0.7	9.6	0.5	1.1	6.4	18.7	7.9	26.4	0.6	(NA)	(NA)
38	Instruments and related products -----	E1	317	96	11.0	123.3	7.8	15.3	69.9	243.1	225.4	464.2	7.8	15.5	248.8
382	Measuring and controlling devices -----	E2	40	16	1.1	11.5	0.8	1.5	6.6	21.9	10.8	32.4	0.7	(NA)	(NA)
3842	Surgical appliances and supplies -----	E2	37	10	0.7	6.8	0.5	1.0	4.1	13.6	10.9	24.3	0.4	(NA)	(NA)
3843	Dental equipment and supplies -----	-	40	8	0.7	8.4	0.4	0.8	3.8	20.7	13.4	33.4	0.6	(NA)	(NA)
3851	Ophthalmic goods -----	E2	45	16	1.7	15.8	1.4	2.6	9.8	30.2	18.0	47.1	1.2	(NA)	(NA)
3873	Watches, clocks, and watchcases -----	-	53	22	4.1	48.6	2.9	5.8	28.1	86.3	121.9	203.1	1.7	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	E1	2 422	550	46.7	471.9	35.9	64.8	281.7	1 061.6	1 336.8	2 372.9	28.4	54.6	810.0
391	Jewelry, silverware, and plated ware -----	E1	959	188	14.6	173.2	10.2	18.4	91.5	417.1	799.8	1 197.6	(D)	(NA)	(NA)
3911	Jewelry, precious metal --	E1	703	161	12.2	146.3	8.4	15.1	76.6	332.3	535.2	864.0	7.1	(NA)	(NA)
3914	Silverware and plated ware -----	E2	25	8	0.6	5.4	0.5	0.9	4.0	9.2	8.5	17.5	(D)	(NA)	(NA)
3915	Jewelers' materials and lapidary work -----	E1	231	19	1.8	21.4	1.4	2.4	10.9	75.6	256.1	316.1	1.1	(NA)	(NA)
3931	Musical instruments -----	E1	18	6	1.0	9.5	0.8	1.5	6.9	17.6	8.2	26.3	0.4	(NA)	(NA)
394	Toys and sporting goods --	E1	187	69	9.9	79.1	8.1	13.9	47.4	194.9	160.4	350.9	6.6	(NA)	(NA)
3944	Games, toys, and children's vehicles -----	E1	63	24	5.3	47.9	4.0	7.5	25.5	124.7	84.9	206.6	4.7	(NA)	(NA)
3949	Sporting and athletic goods, n.e.c. -----	E2	27	9	0.8	6.3	0.7	1.2	4.5	10.5	20.6	32.1	0.6	(NA)	(NA)
395	Pens, pencils, office and art supplies -----	E1	80	24	2.0	21.0	1.5	2.9	12.4	44.6	49.8	92.9	1.2	(NA)	(NA)
3951	Pens and mechanical pencils -----	E3	21	10	0.7	5.6	0.5	1.0	4.0	14.2	11.5	25.7	0.5	(NA)	(NA)
3952	Lead pencils and art goods -----	-	17	7	0.8	9.0	0.5	1.1	5.1	19.1	24.2	42.0	0.4	(NA)	(NA)
396	Costume jewelry and notions -----	E1	396	109	8.1	69.2	6.6	12.0	44.8	141.5	124.3	265.8	4.0	(NA)	(NA)
3961	Costume jewelry -----	E1	184	48	3.2	27.1	2.6	4.6	16.7	59.6	46.1	103.9	1.6	(NA)	(NA)
3962	Artificial flowers -----	-	43	14	1.0	8.2	0.8	1.5	5.4	17.2	21.4	38.4	0.2	(NA)	(NA)
3963	Buttons -----	E2	79	15	1.1	10.7	0.9	1.5	6.6	15.1	12.1	29.0	0.3	(NA)	(NA)
3964	Needles, pins, and fasteners -----	E1	90	32	2.8	23.2	2.3	4.4	16.2	49.7	44.8	94.4	1.9	(NA)	(NA)
399	Miscellaneous manufactures -----	E2	782	154	11.1	120.0	8.7	16.1	78.6	245.9	194.3	439.4	7.9	(NA)	(NA)
3991	Brooms and brushes -----	E2	29	13	1.0	8.8	0.7	1.4	5.6	24.5	20.3	44.3	1.5	(NA)	(NA)
3993	Signs and advertising displays -----	E2	210	58	4.1	45.7	3.1	5.9	28.8	82.5	57.3	139.8	2.6	(NA)	(NA)
3999	Manufacturing industries, n.e.c. -----	E2	528	79	5.8	62.8	4.7	8.5	42.5	134.0	108.5	242.1	3.6	(NA)	(NA)
--	Administrative and auxiliary --	-	646	355	70.4	1 671.9	-	-	-	-	-	-	-	(NA)	(NA)
	Niagara Falls -----	-	91	42	10.7	176.0	7.1	14.6	107.2	512.5	430.3	928.6	75.9	11.8	264.7
28	Chemicals and allied products -----	-	12	9	3.3	58.5	2.3	4.4	37.1	221.3	164.9	388.9	62.5	4.4	107.7
2869	Industrial organic chemicals, n.e.c. -----	-	4	4	0.5	7.8	0.3	0.6	4.6	21.3	44.0	66.5	3.2	(NA)	(NA)
36	Electric and electronic equipment -----	-	4	4	2.4	38.3	1.9	3.9	28.5	118.1	55.6	162.1	7.4	2.3	48.1
362	Electrical industrial apparatus -----	-	4	4	2.4	38.3	1.9	3.9	28.5	118.1	55.6	162.1	7.4	(NA)	(NA)
--	Administrative and auxiliary --	-	8	7	1.1	22.7	-	-	-	-	-	-	-	(NA)	(NA)
	Norwich -----	-	21	9	1.6	19.8	0.9	1.9	6.9	11.1	18.0	33.9	0.7	3.2	71.0
	Nyack -----	-	12	6	0.5	4.5	0.3	0.5	2.4	8.4	12.7	21.2	0.3	0.8	8.2
	Oceanside (U) -----	-	77	21	1.3	13.9	0.9	1.7	8.7	30.9	23.3	53.8	1.8	1.1	20.8

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ² (million dollars)	Value of ship- ments ² (million dollars)	New capital ex- penditures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Ogdensburg-----	-	21	7	0.8	7.6	0.6	1.3	5.7	22.6	16.6	38.3	1.6	0.9	12.6
	Olean-----	-	35	17	4.9	66.2	3.2	5.8	39.6	184.1	118.8	304.0	6.1	4.0	78.7
	Oneida-----	-	27	12	0.9	11.3	0.5	1.0	4.4	14.1	45.1	57.4	2.1	0.9	10.0
	Oneonta-----	-	16	7	0.5	4.4	0.4	0.8	2.9	9.6	13.1	22.2	0.8	0.9	12.0
	Ossining-----	-	35	12	0.9	11.7	0.7	1.3	6.1	18.5	17.0	34.8	1.9	1.1	14.4
	Patchogue-----	-	46	12	0.7	6.1	0.6	1.0	4.6	17.1	22.0	39.3	0.6	1.1	11.5
	Peekskill-----	-	43	14	1.2	12.1	0.9	1.7	7.6	32.8	19.6	53.4	2.1	(D)	(D)
	Pelham Manor-----	-	20	6	1.0	9.3	0.6	0.8	3.9	22.6	29.7	50.7	0.7	1.6	29.4
	Plainview (U)-----	-	118	59	4.8	58.5	3.1	5.8	29.2	126.2	95.4	218.9	6.2	7.4	117.6
34	Fabricated metal products---	E1	15	9	0.6	6.8	0.4	0.9	4.2	18.4	11.3	29.7	0.5	0.7	10.3
36	Electric and electronic	E1	23	14	1.7	19.2	1.1	2.1	9.5	39.9	33.4	71.2	2.3	2.4	45.8
367	Electronic components and accessories-----	E1	10	6	0.6	7.0	0.4	1.0	3.9	16.2	6.3	21.5	0.9	(NA)	(NA)
38	Instruments and related	-	8	5	0.6	7.4	0.3	0.7	3.7	13.9	7.2	20.4	0.3	0.7	10.7
	Plattsburgh-----	-	37	12	1.9	23.3	1.5	2.9	17.0	51.8	71.9	120.8	4.4	1.8	28.8
	Port Chester-----	-	74	18	2.1	23.1	1.6	3.1	14.6	86.5	42.9	129.3	4.1	3.0	60.8
	Port Jervis-----	-	27	11	1.8	14.6	1.2	2.3	10.0	24.7	12.9	37.9	0.9	1.9	17.3
	Poughkeepsie-----	-	66	23	2.5	26.6	2.1	4.0	19.8	51.2	31.2	83.3	1.8	4.2	56.9
	Rochester-----	-	621	207	86.5	1 506.8	46.7	90.9	704.1	3 456.1	1 606.0	5 053.3	223.2	89.9	2 393.3
20	Food and kindred products--	-	42	19	2.9	40.1	1.8	3.8	22.9	165.5	212.7	378.5	11.6	4.1	137.4
265	Paperboard containers and boxes-----	-	8	8	0.5	6.3	0.4	0.8	4.0	12.0	18.7	30.8	(D)	(NA)	(NA)
27	Printing and publishing-----	-	120	27	5.2	77.0	3.0	5.2	39.6	154.7	74.4	225.8	12.4	5.0	100.2
275	Commercial printing-----	-	76	15	1.7	30.0	1.1	2.1	18.2	46.9	43.8	89.4	(D)	(NA)	(NA)
2752	Commercial printing, lithographic-----	-	43	11	1.4	27.3	1.0	1.8	16.5	41.6	41.8	82.0	3.6	(NA)	(NA)
28	Chemicals and allied	-	16	5	0.7	11.0	0.4	0.9	5.7	50.7	31.4	80.7	2.4	(NA)	(NA)
342	Cutlery, hand tools, and	-	6	4	0.6	7.1	0.5	0.9	3.9	17.0	12.1	28.9	(D)	(NA)	(NA)
344	Fabricated structural metal	E1	26	7	1.3	19.8	0.7	1.3	9.0	31.9	20.4	52.3	1.3	(NA)	(NA)
35	Machinery, except electrical--	-	134	38	12.8	235.5	9.1	19.1	156.9	460.1	228.2	662.7	52.2	11.7	261.0
354	Metalworking machinery---	-	61	19	4.4	74.7	3.3	6.7	49.1	130.5	39.5	161.3	(D)	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures-----	E3	44	12	0.7	9.6	0.6	1.3	7.1	15.9	6.2	22.0	1.7	(NA)	(NA)
357	Office and computing	-	8	3	0.7	9.6	0.4	0.7	4.2	34.4	8.6	40.9	1.4	(NA)	(NA)
366	Machines-----	-	4	4	5.2	78.6	2.4	3.8	24.5	125.8	54.4	188.8	5.2	(NA)	(NA)
	Communication equipment--	-													
38	Instruments and related	-	46	23	40.9	757.7	19.5	37.8	322.4	2 110.9	719.7	2 852.0	(D)	38.7	1 489.4
39	Miscellaneous manufacturing	-	20	7	0.9	9.5	0.6	1.1	5.4	16.1	13.0	29.6	0.7	1.0	16.9
	industries-----	-													
	Rockville Centre-----	-	35	6	0.5	5.6	0.4	0.8	3.5	10.9	8.9	19.8	1.1	0.5	10.2
	Rome-----	-	55	19	4.6	67.0	3.4	6.7	47.0	129.0	247.5	368.2	6.4	4.7	90.2
33	Primary metal industries----	-	5	5	2.8	41.9	2.1	4.3	31.8	84.5	196.2	275.0	4.8	2.9	62.2
	Saratoga Springs-----	-	21	9	0.9	8.6	0.5	0.9	4.1	13.9	31.6	45.5	0.9	1.2	22.9

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Springville -----	-	11	4	0.7	8.7	0.5	1.0	5.7	19.6	12.3	31.1	1.0	0.5	6.6
	Syracuse -----	-	259	89	19.7	304.5	11.2	21.4	149.5	569.3	388.1	954.1	24.9	25.7	471.4
20	Food and kindred products --	-	25	10	1.1	13.2	0.5	0.9	6.0	39.8	57.5	97.4	(D)	1.4	32.3
202	Dairy products-----	-	6	5	0.5	5.2	0.2	0.4	2.1	14.1	40.3	54.4	0.6	(NA)	(NA)
27	Printing and publishing -----	-	65	13	1.3	16.1	0.7	1.1	7.3	41.5	17.6	59.0	(D)	1.6	33.4
35	Machinery, except electrical --	-	42	13	2.0	28.2	1.3	2.7	16.3	46.5	36.6	84.0	(D)	2.3	47.6
36	Electric and electronic equipment-----	-	9	7	7.0	121.7	3.0	5.9	43.7	207.0	66.9	273.0	(D)	9.5	183.6
39	Miscellaneous manufacturing industries -----	-	14	4	0.6	6.7	0.5	0.8	3.9	11.8	8.3	20.0	(D)	(NA)	(NA)
399	Miscellaneous manufactures -----	-	11	4	0.6	6.6	0.4	0.8	3.8	11.7	8.3	19.7	(D)	(NA)	(NA)
	Tonawanda -----	-	52	20	1.7	23.8	1.1	2.0	11.6	39.3	43.8	82.7	2.0	13.3	301.6
	Troy -----	-	53	17	2.9	32.5	1.8	3.2	16.9	63.2	54.0	118.1	2.2	4.7	65.3
	Tuckahoe-----	-	21	7	0.7	7.7	0.5	0.9	4.2	16.1	13.4	29.2	1.6	0.5	7.9
	Utica -----	-	118	43	7.0	79.0	4.7	8.6	45.2	159.1	159.6	313.7	8.2	7.1	139.3
20	Food and kindred products --	-	23	8	0.7	8.4	0.5	1.0	4.8	18.3	49.8	67.7	1.2	0.8	16.6
27	Printing and publishing -----	-	25	5	0.5	5.6	0.2	0.4	2.3	12.7	3.6	16.3	(D)	0.6	9.3
34	Fabricated metal products ---	-	6	4	0.6	6.3	0.5	1.0	4.4	10.6	14.3	24.7	0.4	0.7	8.9
	Valley Stream -----	-	91	13	1.1	12.8	0.8	1.6	7.8	22.7	14.7	37.2	1.3	1.1	15.0
	Walden-----	-	22	12	0.9	8.5	0.7	1.4	5.8	19.3	15.7	34.6	0.8	0.9	16.1
	Watervliet -----	-	18	7	1.8	25.3	1.3	2.6	16.6	34.9	51.2	93.2	(D)	4.6	69.9
	Westbury -----	-	42	9	0.7	8.9	0.5	1.0	5.8	17.8	21.7	39.1	1.8	1.2	20.0
	Westfield -----	-	15	7	1.0	14.0	0.5	0.9	4.8	17.3	24.7	43.0	1.5	0.9	10.6
	West Haverstraw-----	-	23	7	0.6	5.9	0.5	0.9	4.2	11.1	8.4	19.7	0.2	0.6	6.5
	White Plains -----	-	85	26	11.2	218.9	0.9	1.6	9.2	57.3	32.7	89.2	1.6	5.4	18.6
	Administrative and auxiliary --	-	18	11	9.0	194.8	-	-	-	-	-	-	-	(NA)	(NA)
	Yonkers -----	-	248	75	8.9	116.8	5.2	10.3	52.3	242.1	320.7	570.9	14.0	12.5	202.5
233	Women's and misses' outerwear -----	E1	22	12	0.9	7.1	0.7	1.1	4.2	10.2	11.7	22.0	0.3	(NA)	(NA)

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
NEW YORK	36578	1892	13	1243	7797	1119	1028	759	6301	939	169	909	657	912	466	2542	2871	1527	430	854	3170	1020	
1 TO 4 EMPLOYEES	13589	695	8	289	2211	555	401	161	3243	364	72	254	179	383	107	891	1240	507	176	303	1414	136	
5 TO 9 EMPLOYEES	5726	290	1	185	1076	204	185	85	1025	144	47	152	86	164	60	407	527	221	66	123	557	121	
10 TO 19 EMPLOYEES	5838	254	-	245	1428	176	185	112	829	136	21	145	97	154	76	464	468	218	54	116	478	182	
20 TO 49 EMPLOYEES	6199	271	2	303	2043	116	134	170	695	142	23	173	128	111	81	436	345	201	44	139	426	216	
50 TO 99 EMPLOYEES	2665	162	1	119	691	42	65	101	285	57	3	111	92	39	48	182	120	144	32	68	170	133	
100 TO 249 EMPLOYEES	1693	121	1	81	288	25	49	91	145	55	2	49	42	32	54	113	89	133	28	67	96	125	
250 TO 499 EMPLOYEES	507	41	-	17	49	1	5	31	35	18	1	22	22	16	19	35	34	53	12	18	19	59	
500 TO 999 EMPLOYEES	206	13	-	4	6	-	1	4	7	15	-	1	4	12	13	8	26	24	5	9	6	23	
1000 TO 2499 EMPLOYEES	107	5	-	-	1	-	-	1	13	7	-	1	-	1	2	5	16	13	7	4	-	7	
2500 EMPLOYEES AND OVER	48	-	-	-	1	-	-	-	6	1	-	-	-	-	-	1	6	13	7	4	-	7	
ALBANY COUNTY	286	40	-	7	17	8	5	6	71	14	5	9	-	20	4	23	17	4	5	7	11	13	
1 TO 4 EMPLOYEES	185	22	-	2	8	6	4	2	59	9	4	6	-	13	-	16	9	2	1	5	7	10	
5 TO 9 EMPLOYEES	66	13	-	3	6	2	1	1	7	4	1	2	-	3	2	5	6	2	2	-	1	3	
10 TO 19 EMPLOYEES	17	3	-	1	2	-	-	2	2	1	-	-	-	-	4	2	-	-	1	1	-	-	
20 TO 49 EMPLOYEES	18	2	-	1	1	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	
50 EMPLOYEES AND OVER	47	8	-	-	1	1	-	-	11	1	-	-	-	1	2	7	11	2	-	-	1	1	
ALLEGANY COUNTY	35	4	-	-	1	1	-	-	11	-	-	-	-	1	1	5	9	-	-	-	1	1	
1 TO 4 EMPLOYEES	7	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5 TO 9 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 49 EMPLOYEES	1136	95	-	27	305	25	77	17	69	40	2	46	18	23	14	150	77	39	10	13	78	11	
1 TO 4 EMPLOYEES	741	66	-	14	186	22	59	10	59	26	1	23	6	19	8	92	57	22	7	8	49	7	
5 TO 9 EMPLOYEES	343	23	-	12	114	3	14	3	7	13	1	21	9	3	6	50	18	13	3	4	23	2	
10 TO 19 EMPLOYEES	34	4	-	1	4	-	3	2	1	1	-	2	1	1	-	6	2	3	-	1	3	1	
20 TO 49 EMPLOYEES	18	2	-	-	1	-	1	1	2	-	-	2	2	-	-	2	-	1	-	-	3	1	
50 EMPLOYEES AND OVER	276	27	-	2	9	10	6	3	56	4	4	17	10	12	1	21	39	20	2	12	10	11	
BROOME COUNTY	168	16	-	-	5	8	3	1	44	3	4	7	7	2	9	11	26	9	2	7	9	6	
1 TO 4 EMPLOYEES	63	9	-	2	2	1	2	1	10	-	-	7	4	3	-	4	7	4	-	-	1	3	
5 TO 9 EMPLOYEES	23	1	-	-	1	1	-	-	2	1	-	2	1	-	-	5	1	4	-	1	-	-	
10 TO 19 EMPLOYEES	22	1	-	-	1	-	1	-	2	-	-	1	-	-	-	1	5	3	-	4	-	-	
20 TO 49 EMPLOYEES	132	16	-	-	-	21	5	2	12	5	2	6	2	8	2	15	21	5	1	1	2	6	
50 TO 99 EMPLOYEES	77	11	-	-	-	12	1	2	4	3	1	2	1	7	1	8	14	1	1	1	2	4	
100 TO 249 EMPLOYEES	35	4	-	-	-	6	3	-	1	1	-	2	-	1	-	4	15	1	-	-	-	-	
250 TO 499 EMPLOYEES	14	1	-	-	-	3	3	-	1	1	-	-	-	-	-	3	1	1	-	-	-	-	
500 EMPLOYEES AND OVER	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	-	-	-	
CATTARAUGUS COUNTY	104	12	-	1	1	12	-	2	15	4	1	7	2	9	3	9	12	5	2	1	2	4	
1 TO 4 EMPLOYEES	71	8	-	-	1	11	-	1	11	4	1	3	1	7	2	7	9	4	2	1	1	2	
5 TO 9 EMPLOYEES	21	2	-	-	-	1	-	-	3	-	-	3	1	2	2	2	1	-	-	-	1	2	
10 TO 19 EMPLOYEES	6	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	2	-	-	-	-	-	
20 TO 49 EMPLOYEES	299	41	-	2	3	36	36	3	22	6	3	6	-	11	13	39	50	7	3	2	8	8	
50 TO 99 EMPLOYEES	193	22	-	1	1	30	18	2	16	5	3	2	-	9	6	23	34	3	2	-	1	1	
100 TO 249 EMPLOYEES	92	11	-	1	1	5	1	-	4	1	-	2	-	-	-	9	11	3	-	-	1	1	
250 TO 499 EMPLOYEES	21	4	-	-	-	1	10	-	2	-	-	-	-	2	1	6	1	1	-	-	-	-	
500 EMPLOYEES AND OVER	23	4	-	-	1	-	-	-	2	2	1	-	-	-	-	-	4	1	1	-	-	6	
CHAUTAUQUE COUNTY	119	19	-	-	3	2	2	4	14	2	1	1	-	-	5	18	17	5	5	1	4	6	
1 TO 4 EMPLOYEES	64	10	-	-	3	1	2	2	9	1	1	1	-	5	1	11	10	2	1	1	3	1	
5 TO 9 EMPLOYEES	24	3	-	-	-	-	-	-	3	1	-	1	-	3	3	5	3	1	-	-	1	1	
10 TO 19 EMPLOYEES	15	3	-	-	-	1	-	-	1	-	-	-	-	-	2	1	3	1	1	-	3	3	
20 TO 49 EMPLOYEES	16	3	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	1	2	-	-	-	
500 EMPLOYEES AND OVER	84	12	-	3	-	18	-	1	11	4	2	3	3	4	1	6	7	4	1	2	2	1	
CHENANGO COUNTY	57	8	-	1	-	16	-	-	6	1	2	2	1	3	1	4	6	5	1	2	-	-	
1 TO 4 EMPLOYEES	12	3	-	-	-	2	-	-	5	1	-	1	-	1	-	-	6	4	-	-	-	-	
5 TO 9 EMPLOYEES	9	1	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
10 TO 19 EMPLOYEES	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 49 EMPLOYEES	79	7	-	3	3	13	3	6	7	4	2	5	-	4	3	3	4	3	1	1	4	4	
50 TO 99 EMPLOYEES	54	5	-	2	1	13	2	3	5	1	1	1	-	4	1	2	3	2	1	-	-	3	
100 TO 249 EMPLOYEES	18	2	-	-	-	-	-	-	1	2	1	1	-	1	2	1	-	1	-	-	-	-	
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

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Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
COLUMBIA COUNTY. 1 to 19 EMPLOYEES.	86	9	1	3	13	4	1	3	12	3	1	3	-	9	-	4	11	5	-	-	3	1
20 to 99 EMPLOYEES.	55	6	-	1	6	3	1	1	10	2	1	1	-	7	-	3	10	4	-	-	2	1
100 to 249 EMPLOYEES.	22	3	1	6	1	1	1	-	12	1	-	-	-	1	-	1	1	-	-	-	1	
250 EMPLOYEES AND OVER.	8	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CORTLAND COUNTY. 1 to 19 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 to 99 EMPLOYEES.	40	8	-	5	9	1	2	2	9	2	2	2	-	2	1	5	8	1	3	1	2	
100 to 249 EMPLOYEES.	64	7	-	1	6	1	1	1	8	1	1	1	-	2	1	5	3	1	1	1	1	
250 EMPLOYEES AND OVER.	11	1	-	2	1	1	-	-	1	1	1	2	-	-	-	-	2	-	2	-	-	
DELAWARE COUNTY. 1 to 19 EMPLOYEES.	6	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	
20 to 99 EMPLOYEES.	74	11	-	-	27	2	2	-	6	2	-	2	1	3	1	1	9	3	1	3	1	
100 to 249 EMPLOYEES.	1	8	-	1	21	1	1	-	3	1	-	1	1	3	1	1	2	1	1	2	-	
250 EMPLOYEES AND OVER.	52	2	-	-	6	1	-	-	2	1	-	-	-	-	-	-	1	1	1	-	-	
DUTCHESS COUNTY. 1 to 19 EMPLOYEES.	4	2	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	1	-	-	-	
20 to 99 EMPLOYEES.	229	18	-	3	13	12	7	4	38	6	5	5	4	16	2	18	32	23	4	8	5	
100 to 249 EMPLOYEES.	144	14	-	2	10	3	1	1	28	6	3	2	1	14	2	13	21	13	3	5	4	
250 EMPLOYEES AND OVER.	53	3	-	10	2	2	2	2	9	1	-	-	-	1	-	5	6	4	1	1	1	
ERIE COUNTY. 1 to 19 EMPLOYEES.	22	1	-	1	1	1	-	-	1	-	-	2	-	2	-	-	3	1	-	-	-	
20 to 99 EMPLOYEES.	105	145	-	42	39	29	41	206	68	17	54	10	76	62	44	175	217	59	39	41	67	
100 to 249 EMPLOYEES.	86	86	-	32	31	21	12	162	39	11	22	2	35	45	18	110	152	39	22	24	49	
250 EMPLOYEES AND OVER.	339	39	-	9	8	6	20	36	19	4	22	2	55	10	9	47	45	11	7	12	12	
ESSEX COUNTY. 1 to 19 EMPLOYEES.	97	14	-	3	-	-	-	4	5	1	5	-	1	2	9	14	12	2	4	6	3	
20 to 99 EMPLOYEES.	64	6	-	1	-	-	-	1	3	8	1	1	-	3	-	1	1	-	1	1	1	
100 to 249 EMPLOYEES.	61	2	-	36	34	-	1	7	1	1	1	-	-	2	-	1	1	-	1	1	-	
250 EMPLOYEES AND OVER.	52	1	-	2	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	
FRANKLIN COUNTY. 1 to 19 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 to 99 EMPLOYEES.	58	8	-	4	22	1	-	7	-	-	1	5	3	3	-	-	1	-	1	1	-	
100 to 249 EMPLOYEES.	1	5	-	2	19	3	-	2	-	-	1	1	3	-	-	-	1	-	-	-	-	
250 EMPLOYEES AND OVER.	4	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FULTON COUNTY. 1 to 19 EMPLOYEES.	164	3	-	14	13	11	3	3	6	3	3	5	76	2	-	2	6	1	2	1	5	
20 to 99 EMPLOYEES.	96	3	-	8	9	11	1	3	4	3	3	1	35	2	-	2	4	1	2	1	1	
100 to 249 EMPLOYEES.	46	-	-	4	-	-	-	-	1	2	-	1	7	-	-	-	1	-	-	-	-	
250 EMPLOYEES AND OVER.	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GENESSEE COUNTY. 1 to 19 EMPLOYEES.	87	13	-	2	3	2	-	3	10	2	3	6	2	7	2	9	16	2	1	-	3	
20 to 99 EMPLOYEES.	48	6	-	1	1	2	-	3	6	1	3	3	1	3	-	6	12	1	-	-	3	
100 to 249 EMPLOYEES.	27	2	-	1	1	-	-	3	4	1	-	3	1	2	-	2	2	1	1	1	1	
250 EMPLOYEES AND OVER.	5	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	-	1	-	-	
GREENE COUNTY. 1 to 19 EMPLOYEES.	46	4	-	2	8	3	-	-	6	1	1	1	1	3	2	3	3	2	3	1	2	
20 to 99 EMPLOYEES.	27	1	-	1	4	3	-	-	5	-	1	1	1	1	2	1	2	1	1	1	1	
100 to 249 EMPLOYEES.	12	3	-	4	-	-	-	-	1	1	-	-	-	-	-	1	-	-	-	-	-	
250 EMPLOYEES AND OVER.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HAMILTON COUNTY. 1 to 19 EMPLOYEES.	14	-	-	1	1	12	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 to 99 EMPLOYEES.	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 to 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER.	94	9	-	5	4	13	3	4	8	5	3	1	6	3	3	1	15	2	2	5	2	
JEFFERSON COUNTY. 1 to 19 EMPLOYEES.	67	6	-	3	1	1	1	1	3	1	1	1	1	1	1	1	4	1	1	1	1	
20 to 99 EMPLOYEES.	21	2	-	2	3	1	1	1	3	1	1	-	-	-	-	-	1	1	1	1	1	
100 to 249 EMPLOYEES.	6	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER.	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JEFFERSON COUNTY. 1 to 19 EMPLOYEES.	87	16	-	3	9	7	-	9	12	3	2	1	2	6	1	1	7	5	6	3	1	
20 to 99 EMPLOYEES.	55	11	-	1	2	2	-	2	10	2	1	1	-	6	1	1	3	2	4	1	1	
100 to 249 EMPLOYEES.	21	2	-	1	1	1	-	2	1	1	-	-	-	-	-	-	1	1	1	1	-	
250 EMPLOYEES AND OVER.	4	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

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State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
KINGS COUNTY	4201	270	-	375	1056	100	224	137	272	142	6	148	89	95	56	387	225	160	56	66	324	13
1 TO 19 EMPLOYEES	2735	179	-	217	582	85	161	73	225	101	4	100	46	77	32	274	183	106	26	51	207	6
20 TO 99 EMPLOYEES	1253	72	-	146	433	15	57	49	37	29	2	40	30	14	19	98	33	38	21	11	103	6
100 TO 249 EMPLOYEES	166	10	-	11	35	-	5	14	7	9	-	6	11	2	5	9	5	13	7	4	12	1
250 EMPLOYEES AND OVER	47	9	-	-	6	-	1	1	3	3	-	2	2	2	2	6	4	3	2	-	2	-
LEWIS COUNTY	34	2	-	2	-	17	-	5	3	-	-	-	-	1	-	-	1	-	1	1	1	-
1 TO 19 EMPLOYEES	22	-	-	1	-	17	-	-	2	-	-	-	-	-	-	-	1	-	1	1	-	-
20 TO 99 EMPLOYEES	4	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
LIVINGSTON COUNTY	56	9	-	-	2	2	-	-	13	5	-	4	1	4	2	3	5	3	1	-	2	-
1 TO 19 EMPLOYEES	31	7	-	-	-	1	-	-	7	2	-	2	1	2	1	2	2	2	1	-	1	-
20 TO 99 EMPLOYEES	14	-	-	-	-	-	-	-	4	2	-	2	-	1	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	8	1	-	-	2	-	-	-	2	1	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
MADISON COUNTY	64	13	-	-	1	6	2	2	6	2	1	3	-	8	2	1	9	3	3	-	1	1
1 TO 19 EMPLOYEES	44	9	-	-	1	5	1	2	5	2	1	-	-	7	-	1	6	3	2	-	1	-
20 TO 99 EMPLOYEES	16	3	-	-	-	-	-	-	1	-	-	2	-	1	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MONROE COUNTY	968	69	-	3	23	20	24	31	172	23	8	28	8	33	19	124	200	53	6	65	34	25
1 TO 19 EMPLOYEES	626	41	-	17	118	16	19	8	134	15	8	17	8	20	11	71	140	31	6	31	23	9
20 TO 99 EMPLOYEES	243	18	-	1	2	2	5	20	32	3	-	10	-	12	7	42	45	14	-	15	7	8
100 TO 249 EMPLOYEES	48	6	-	-	2	-	-	-	4	4	-	-	-	-	1	7	9	2	-	5	3	3
250 EMPLOYEES AND OVER	51	4	-	1	2	-	-	-	4	-	-	1	-	1	-	4	7	6	-	14	1	5
MONTGOMERY COUNTY	89	9	-	11	12	3	2	5	9	3	1	4	3	2	1	3	6	1	-	2	10	2
1 TO 19 EMPLOYEES	42	4	-	6	4	3	2	1	6	2	1	-	-	2	-	1	6	-	-	1	3	-
20 TO 99 EMPLOYEES	30	3	-	1	6	-	-	4	2	1	-	4	3	-	-	1	-	-	-	1	3	-
100 TO 249 EMPLOYEES	12	-	-	4	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NASSAU COUNTY	2448	69	-	57	185	64	73	56	511	74	8	109	9	53	33	245	281	211	58	120	184	48
1 TO 19 EMPLOYEES	1812	58	-	40	118	52	59	30	424	45	7	76	8	46	21	172	235	131	45	69	152	24
20 TO 99 EMPLOYEES	494	9	-	10	60	10	12	16	76	22	-	29	1	6	8	59	38	52	5	36	25	21
100 TO 249 EMPLOYEES	110	2	-	6	7	2	2	7	10	4	1	-	1	-	4	11	7	17	5	13	5	2
250 EMPLOYEES AND OVER	32	-	-	1	-	-	-	3	1	3	-	-	-	1	-	3	1	11	3	2	2	1
NEW YORK COUNTY	13289	170	9	350	5096	96	228	132	3242	128	4	90	332	66	45	250	220	263	21	149	1806	592
1 TO 19 EMPLOYEES	9489	127	7	243	3176	85	199	90	2598	106	4	73	206	56	37	208	196	207	18	107	1474	260
20 TO 99 EMPLOYEES	3214	27	1	84	1709	11	26	38	530	10	-	15	108	8	8	37	23	47	3	36	290	193
100 TO 249 EMPLOYEES	432	3	1	19	181	-	3	3	71	1	-	2	14	2	-	5	1	6	-	6	35	79
250 EMPLOYEES AND OVER	154	1	-	4	30	-	-	1	43	1	-	-	4	-	-	-	-	3	-	-	7	60
NIAGARA COUNTY	306	28	-	2	2	14	3	13	25	25	2	16	-	24	13	36	71	10	3	2	6	11
1 TO 19 EMPLOYEES	178	20	-	1	1	11	1	3	19	8	-	11	-	12	3	23	50	4	2	2	5	3
20 TO 99 EMPLOYEES	72	4	-	-	-	2	2	4	4	9	2	3	-	5	5	11	15	2	-	1	1	2
100 TO 249 EMPLOYEES	35	3	-	1	1	-	-	5	2	5	-	2	-	3	3	1	5	-	-	-	-	-
250 EMPLOYEES AND OVER	21	1	-	-	-	-	-	1	-	-	-	-	-	4	2	1	1	-	1	-	-	1
ONEIDA COUNTY	314	49	-	7	11	19	8	9	43	6	3	7	2	19	14	22	49	7	4	9	20	6
1 TO 19 EMPLOYEES	206	36	-	3	7	15	5	5	32	6	3	5	-	15	3	13	33	2	1	5	13	4
20 TO 99 EMPLOYEES	65	9	-	1	3	3	1	3	9	-	-	2	1	3	5	4	10	3	1	2	5	1
100 TO 249 EMPLOYEES	24	4	-	3	-	1	1	-	1	-	-	-	-	1	2	4	2	1	1	1	1	-
250 EMPLOYEES AND OVER	19	-	-	-	1	-	-	-	1	-	-	-	-	-	-	2	4	1	1	1	1	-
ONONDAGA COUNTY	594	61	1	1	13	16	10	14	112	26	5	14	3	19	24	72	107	32	4	16	30	14
1 TO 19 EMPLOYEES	373	34	1	-	12	11	9	3	90	19	5	5	-	10	9	43	72	13	1	8	24	4
20 TO 99 EMPLOYEES	144	19	-	-	-	4	1	8	19	3	-	7	1	8	4	22	25	5	1	6	4	3
100 TO 249 EMPLOYEES	40	7	-	1	-	1	-	3	2	2	-	-	1	1	1	5	1	7	2	1	1	4
250 EMPLOYEES AND OVER	37	1	-	-	1	-	-	-	1	2	-	2	1	1	3	2	9	7	2	1	1	3
ONTARIO COUNTY	125	16	-	-	2	7	1	4	12	5	2	6	-	10	3	8	33	7	1	4	3	1
1 TO 19 EMPLOYEES	82	6	-	-	1	4	1	2	8	4	2	2	-	9	1	7	26	2	1	2	3	1
20 TO 99 EMPLOYEES	28	8	-	-	1	3	-	1	4	1	-	1	-	1	2	1	3	3	-	1	-	-
100 TO 249 EMPLOYEES	11	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal products; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
ORANGE COUNTY	358	24	-	15	44	18	7	13	43	11	4	14	12	20	10	24	34	15	6	11	27	6
1 TO 19 EMPLOYEES	212	14	-	8	17	14	3	3	36	4	4	5	1	14	4	14	28	9	4	4	22	3
20 TO 99 EMPLOYEES	105	8	-	5	22	2	3	8	5	2	-	4	8	5	4	5	6	4	1	2	25	3
100 TO 249 EMPLOYEES	28	2	-	1	5	2	1	1	1	3	-	4	1	1	1	3	-	2	-	1	-	-
250 EMPLOYEES AND OVER	13	-	-	1	-	-	-	-	1	2	-	1	2	1	1	2	-	-	1	1	-	-
ORLEANS COUNTY	48	7	-	2	1	6	1	1	5	1	1	1	-	3	1	6	6	2	-	1	2	1
1 TO 19 EMPLOYEES	32	3	-	1	1	6	-	1	3	1	-	-	-	-	-	5	5	2	-	-	-	1
20 TO 99 EMPLOYEES	12	3	-	1	-	-	-	-	2	1	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OSWEGO COUNTY	109	12	-	3	1	20	-	8	16	1	3	-	-	8	4	11	18	1	1	1	2	-
1 TO 19 EMPLOYEES	69	8	-	2	1	17	-	1	11	1	3	-	-	6	1	6	9	1	1	-	-	-
20 TO 99 EMPLOYEES	23	1	-	1	2	2	-	1	5	-	-	-	-	1	1	3	8	-	-	-	2	-
100 TO 249 EMPLOYEES	10	-	-	-	-	1	-	-	-	-	-	-	-	1	2	2	-	-	-	-	-	-
250 EMPLOYEES AND OVER	7	3	-	-	-	-	-	2	-	-	-	-	-	-	1	-	1	-	-	-	-	-
OTSEGO COUNTY	60	9	-	2	2	13	-	3	10	1	2	4	-	2	1	1	3	3	2	-	2	-
1 TO 19 EMPLOYEES	42	7	-	2	1	11	-	1	9	1	-	3	-	2	1	1	2	1	1	-	1	-
20 TO 99 EMPLOYEES	13	2	-	-	-	2	-	-	1	1	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	1	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-
PUTNAM COUNTY	64	2	-	1	2	5	3	1	13	-	-	5	1	3	1	3	3	4	-	5	10	2
1 TO 19 EMPLOYEES	55	2	-	1	2	5	3	1	12	-	-	4	1	2	1	3	2	3	-	3	10	1
20 TO 99 EMPLOYEES	8	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QUEENS COUNTY	2710	159	-	207	437	69	109	83	278	99	6	88	25	70	39	303	252	126	33	87	211	29
1 TO 19 EMPLOYEES	1803	96	-	94	267	54	77	32	227	79	4	52	14	53	29	203	211	77	24	53	139	18
20 TO 99 EMPLOYEES	713	36	-	95	150	15	25	31	45	15	2	32	7	15	4	85	31	35	7	21	54	8
100 TO 249 EMPLOYEES	132	15	-	14	12	-	6	13	4	2	-	4	4	2	2	12	8	7	1	8	15	3
250 EMPLOYEES AND OVER	62	12	-	4	8	-	1	7	2	2	-	-	-	-	-	7	2	7	1	5	3	-
RENSELAER COUNTY	127	7	-	6	9	9	2	5	28	4	2	7	-	7	3	10	15	2	1	3	3	4
1 TO 19 EMPLOYEES	88	6	-	4	5	7	1	2	24	1	-	4	-	6	2	5	11	2	1	1	3	3
20 TO 99 EMPLOYEES	22	-	-	1	1	1	1	1	2	1	-	2	-	-	-	-	-	-	-	-	-	2
100 TO 249 EMPLOYEES	10	1	-	-	2	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RICHMOND COUNTY	125	13	-	-	34	4	4	1	21	5	1	3	-	4	1	9	8	2	8	2	4	1
1 TO 19 EMPLOYEES	85	8	-	-	18	4	4	1	19	2	1	2	-	4	-	7	6	2	3	2	3	1
20 TO 99 EMPLOYEES	30	3	-	-	14	-	-	-	1	1	1	1	-	-	-	2	2	-	3	-	1	1
100 TO 249 EMPLOYEES	5	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROCKLAND COUNTY	278	9	-	7	23	4	5	6	49	21	1	12	4	14	10	20	29	22	1	10	20	11
1 TO 19 EMPLOYEES	191	7	-	3	12	4	3	2	45	13	1	10	2	12	5	16	25	10	-	8	12	4
20 TO 99 EMPLOYEES	51	2	-	2	9	-	2	1	1	3	-	-	-	1	2	3	6	1	1	2	6	4
100 TO 249 EMPLOYEES	22	-	-	1	2	-	-	-	1	1	-	1	-	-	1	1	1	6	-	-	1	2
250 EMPLOYEES AND OVER	14	-	-	1	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-
ST. LAWRENCE COUNTY	87	23	-	-	2	9	2	6	11	1	2	1	-	6	6	5	4	5	-	-	2	2
1 TO 19 EMPLOYEES	53	14	-	-	1	7	1	1	9	1	1	1	-	4	1	3	3	3	-	-	2	1
20 TO 99 EMPLOYEES	19	2	-	1	1	2	1	1	2	-	-	-	-	1	-	1	1	1	-	-	-	-
100 TO 249 EMPLOYEES	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SARATOGA COUNTY	120	12	-	5	7	14	2	13	19	5	-	4	-	2	-	8	14	3	3	3	5	1
1 TO 19 EMPLOYEES	85	6	-	2	5	12	-	5	18	4	-	3	-	-	-	7	10	1	3	1	5	1
20 TO 99 EMPLOYEES	26	6	-	1	2	2	-	3	1	-	-	1	-	-	-	1	4	-	-	-	-	-
100 TO 249 EMPLOYEES	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCHENECTADY COUNTY	144	21	-	1	7	4	1	3	24	5	1	2	-	12	3	14	10	8	2	6	2	18
1 TO 19 EMPLOYEES	92	12	-	1	2	2	1	1	22	3	1	-	-	11	1	13	4	5	2	5	2	5
20 TO 99 EMPLOYEES	29	8	-	1	5	2	-	1	1	-	-	1	-	1	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCHOHARIE COUNTY	39	4	-	1	2	7	-	-	5	2	1	3	-	4	1	3	3	3	1	-	1	1
1 TO 19 EMPLOYEES	32	4	-	1	2	6	-	-	4	1	2	1	-	4	1	2	1	-	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
SCHUYLER COUNTY.	19	3	-	-	1	1	-	-	5	2	1	-	-	-	1	2	3	-	-	-	-	-	
1 TO 19 EMPLOYEES.	13	3	-	-	1	1	-	-	5	-	-	-	-	-	-	1	2	-	-	-	-	-	
20 TO 99 EMPLOYEES.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES.	2	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SENECA COUNTY.	35	7	-	1	1	2	-	-	6	1	1	3	-	-	2	2	6	1	1	-	-	1	
1 TO 19 EMPLOYEES.	23	5	-	1	1	1	-	-	6	1	1	3	-	-	-	1	3	-	-	-	-	-	
20 TO 99 EMPLOYEES.	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	
250 EMPLOYEES AND OVER.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	
STEUEN COUNTY.	91	17	-	3	1	11	3	1	12	-	2	1	-	14	1	2	10	3	1	2	3	4	
1 TO 19 EMPLOYEES.	50	10	-	1	9	2	2	-	3	-	2	1	-	7	-	-	2	1	1	2	3	4	
20 TO 99 EMPLOYEES.	20	5	-	2	-	-	-	-	-	-	-	-	-	1	-	-	3	-	-	-	-	-	
100 TO 249 EMPLOYEES.	6	1	-	-	-	-	1	-	1	-	-	-	-	4	1	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER.	15	1	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	
SUFFOLK COUNTY.	2379	82	1	62	179	68	69	47	298	67	15	93	9	89	37	266	433	230	90	105	114	25	
1 TO 19 EMPLOYEES.	1747	61	1	35	92	57	53	26	257	48	13	59	2	73	26	203	388	132	76	70	89	24	
20 TO 99 EMPLOYEES.	500	16	-	24	80	9	13	17	32	14	2	26	6	15	10	49	56	58	12	26	22	13	
100 TO 249 EMPLOYEES.	97	4	-	2	7	2	2	3	6	3	-	7	1	1	-	12	5	26	1	7	3	4	
250 EMPLOYEES AND OVER.	35	1	-	1	-	-	1	1	1	3	-	1	-	4	1	-	4	14	1	2	-	2	
SULLIVAN COUNTY.	81	10	-	1	3	10	7	1	17	3	4	-	1	6	3	7	5	1	-	1	1	-	
1 TO 19 EMPLOYEES.	72	9	-	1	2	10	6	1	16	2	3	-	1	6	3	5	4	1	-	1	1	-	
20 TO 99 EMPLOYEES.	8	1	-	-	-	-	-	-	1	-	1	-	-	-	-	2	-	-	-	-	-	-	
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TIOGA COUNTY.	50	3	-	-	2	13	4	-	5	4	-	1	1	2	2	2	8	2	-	-	-	-	
1 TO 19 EMPLOYEES.	33	2	-	-	12	12	1	-	5	4	-	1	1	2	1	2	6	1	-	-	1	-	
20 TO 99 EMPLOYEES.	12	1	-	-	2	1	1	-	-	-	-	1	1	-	-	1	1	1	-	-	-	-	
100 TO 249 EMPLOYEES.	4	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOMPKINS COUNTY.	84	8	-	-	1	6	-	-	29	1	1	-	1	8	-	3	11	5	3	4	3	3	
1 TO 19 EMPLOYEES.	67	7	-	-	1	6	-	-	25	1	1	-	1	7	-	1	7	4	1	3	3	-	
20 TO 99 EMPLOYEES.	10	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	2	-	1	1	-	-	
100 TO 249 EMPLOYEES.	4	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ULSTER COUNTY.	237	19	1	3	28	24	10	5	31	4	3	1	4	8	3	21	34	12	3	8	13	2	
1 TO 19 EMPLOYEES.	178	18	-	2	12	22	8	3	24	2	1	1	2	6	2	16	28	7	3	7	11	2	
20 TO 99 EMPLOYEES.	43	1	1	13	1	2	2	6	6	1	1	-	2	1	-	4	3	2	-	-	1	-	
100 TO 249 EMPLOYEES.	9	-	-	2	-	-	-	-	1	-	-	-	-	1	-	-	1	1	-	-	-	-	
250 EMPLOYEES AND OVER.	7	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WARREN COUNTY.	95	5	-	1	5	30	2	6	14	3	1	1	-	6	-	5	9	1	1	2	3	-	
1 TO 19 EMPLOYEES.	68	4	-	-	1	24	2	3	10	1	1	1	-	4	-	4	8	-	1	1	3	-	
20 TO 99 EMPLOYEES.	15	1	-	-	1	5	-	2	3	1	-	-	-	1	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES.	7	-	-	3	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER.	5	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WASHINGTON COUNTY.	77	2	-	-	6	10	2	7	8	1	2	2	-	14	1	2	11	1	1	2	5	-	
1 TO 19 EMPLOYEES.	48	1	-	-	2	6	1	1	8	1	2	-	-	9	1	2	9	-	1	1	4	-	
20 TO 99 EMPLOYEES.	16	1	-	-	4	4	1	1	1	-	-	-	-	5	-	-	-	-	1	1	2	1	
100 TO 249 EMPLOYEES.	5	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER.	8	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WAYNE COUNTY.	119	24	-	-	1	15	1	5	15	6	2	1	-	7	-	7	17	3	3	2	7	3	
1 TO 19 EMPLOYEES.	78	14	-	-	14	14	-	12	12	5	2	1	-	5	-	4	12	1	2	1	4	1	
20 TO 99 EMPLOYEES.	25	5	-	-	1	1	-	3	3	1	-	-	-	1	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES.	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER.	8	1	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WESTCHESTER COUNTY.	1450	70	-	28	138	31	33	19	296	71	11	50	13	43	21	132	129	123	16	66	88	72	
1 TO 19 EMPLOYEES.	1017	50	-	18	83	26	28	12	247	51	9	28	7	31	7	93	109	73	12	39	71	23	
20 TO 99 EMPLOYEES.	323	14	-	19	46	3	7	3	39	15	2	20	3	11	8	35	15	26	3	20	14	29	
100 TO 249 EMPLOYEES.	77	4	-	1	8	1	2	-	7	4	-	1	2	1	4	3	3	18	6	6	3	9	
250 EMPLOYEES AND OVER.	33	2	-	-	1	-	-	-	3	1	-	-	1	-	2	1	2	1	1	1	-	11	

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
WYOMING COUNTY	48	7	-	2	3	6	2	1	4	1	1	1	-	3	2	2	6	4	-	1	2	-
1 TO 19 EMPLOYEES	26	5	-	1	2	2	-	1	4	-	1	-	-	3	-	1	4	-	-	1	1	-
20 TO 99 EMPLOYEES	12	1	-	1	-	4	2	-	-	-	-	1	-	-	-	1	2	-	-	-	-	-
100 TO 249 EMPLOYEES	6	1	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	1	-	-	1	-
250 EMPLOYEES AND OVER	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-
YATES COUNTY	21	4	-	-	1	1	2	-	3	2	-	-	-	1	-	2	2	-	2	-	-	1
1 TO 19 EMPLOYEES	13	2	-	-	-	1	1	-	3	1	-	-	-	1	-	2	2	-	-	-	-	-
20 TO 99 EMPLOYEES	6	1	-	-	1	-	1	-	-	1	-	-	-	-	-	-	1	-	1	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

¹Only those counties and size classes that include data for manufacturing establishments are shown.



North Carolina

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SUMMARY OF FINDINGS

In 1977, 765.3 thousand persons were employed in North Carolina's manufacturing establishments. This figure represented an increase of 3 percent from the 1972 figure of 743.7 thousand workers.

The total value added by manufacture for the State amounted to \$18,231 million in 1977, an increase of approximately 66 percent from the 1972 figure of \$11,015 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were textile mill products, furniture and fixtures, apparel and other textile products, and electric and electronic equipment. They accounted for approximately 58 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 62 percent of the State's employment.

The most important counties in the State ranked by employment were Guilford, Forsyth, Mecklenburg, and Gaston. They accounted for approximately 23 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 24 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 3 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
North Carolina:						
1977.....	765.3	7,518.5	739.4	7,042.5	25.9	476.0
1972.....	743.7	4,929.1	722.5	4,677.7	21.2	251.4
1967.....	643.8	3,066.1	628.9	2,924.7	14.9	141.4
1963.....	530.6	2,092.1	519.1	2,002.9	11.6	89.1
STANDARD METROPOLITAN STATISTICAL AREAS						
Asheville:						
1977.....	19.8	193.3	18.8	177.8	1.0	15.5
1972.....	21.8	144.6	20.8	133.2	1.0	11.4
1967.....	19.7	95.9	18.8	88.5	.9	7.4
1963.....	16.5	70.1	(D)	(D)	(D)	(D)
Burlington:						
1977.....	20.1	186.8	19.6	179.0	.5	7.8
1972.....	24.3	161.3	(D)	(D)	(D)	(D)
Charlotte-Gastonia:						
1977.....	87.1	894.7	82.5	318.7	4.6	77.3
1972.....	88.4	620.4	84.5	576.0	3.9	44.4
Fayetteville:						
1977.....	9.9	103.3	(D)	(D)	(D)	(D)
1972.....	10.5	71.0	(D)	(D)	(D)	(D)
1967.....	6.5	28.3	(D)	(D)	(D)	(D)
Greensboro--Winston-Salem--High Point:						
1977.....	144.2	1,624.5	131.3	1,366.7	12.9	257.8
1972.....	138.0	1,022.4	128.7	905.9	9.3	116.5
Norfolk-Virginia Beach-Portsmouth, Va.--N.C.:						
1977.....	26.7	326.2	26.0	317.1	.7	9.1
1972.....	27.6	206.6	27.2	202.0	.4	4.6
Raleigh-Durham:						
1977.....	36.7	474.3	33.9	418.9	2.8	55.4
1972.....	32.2	268.2	29.8	239.9	2.4	28.3
1967.....	28.6	160.8	27.6	151.0	1.0	9.8
Wilmington:						
1977.....	13.0	166.6	12.8	163.8	.2	2.8
1972.....	12.1	98.1	12.1	97.6	(Z)	.5
1967.....	7.9	36.1	7.9	36.1	-	-

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers								Comparative indexes and U.S. employment			
															United States	
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	Index of State em- ploy- ment change (1977= 100)	Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)	
NORTH CAROLINA																
1977 CENSUS.	9 954	4 005	765.3	7 518.5	611.3	1 186.5	5 086.3	18 230.6	23 009.8	40 912.2	1 345.3	3.91	100	100	19 596.9	
1976 ASM....	(NA)	(NA)	738.9	6 655.2	591.8	1 141.9	4 504.7	15 822.1	20 186.9	35 818.9	1 294.6	3.94	97	96	18 753.0	
1975 ASM....	(NA)	(NA)	710.8	5 847.2	563.7	1 053.7	3 866.6	13 507.0	17 752.5	31 432.8	1 236.7	3.88	93	94	18 302.2	
1974 ASM....	(NA)	(NA)	780.8	6 021.7	625.6	1 203.2	4 033.2	13 900.9	17 748.5	31 191.1	1 199.1	3.93	102	102	19 844.8	
1973 ASM....	(NA)	(NA)	781.0	5 458.6	634.9	1 249.3	3 812.6	12 592.6	14 958.3	27 440.6	1 053.6	3.93	102	102	19 897.9	
1972 CENSUS.	8 632	3 794	743.7	4 929.1	604.0	1 211.0	3 427.3	11 014.5	13 296.7	24 123.9	986.8	3.91	97	98	19 028.7	
1971 ASM....	(NA)	(NA)	699.0	4 267.3	566.3	1 118.8	2 949.5	9 824.2	11 104.2	20 880.5	810.4	3.81	91	94	18 363.1	
1970 ASM....	(NA)	(NA)	699.9	3 998.6	571.3	1 124.4	2 789.5	9 053.4	10 559.3	19 515.0	714.0	3.64	91	99	19 217.2	
1969 ASM....	(NA)	(NA)	691.0	3 751.8	568.9	1 133.2	2 670.4	8 186.1	10 047.5	18 155.4	756.2	3.45	90	103	20 035.5	
1968 ASM....	(NA)	(NA)	669.1	3 424.1	555.6	1 112.0	2 474.2	7 575.0	9 407.7	16 880.6	637.6	3.43	87	100	19 527.6	
1967 CENSUS.	8 266	3 379	643.3	3 066.1	537.8	1 070.2	2 210.1	6 606.5	8 592.8	15 129.6	664.6	3.33	84	99	19 323.2	
1966 ASM....	(NA)	(NA)	611.9	2 806.1	511.2	1 047.7	2 022.2	6 133.0	8 200.4	14 146.6	732.5	3.22	80	98	19 024.5	
1965 ASM....	(NA)	(NA)	576.2	2 503.3	480.6	981.9	1 818.6	5 528.4	7 401.3	12 819.3	511.6	3.20	75	92	18 010.2	
1964 ASM....	(NA)	(NA)	546.9	2 278.6	454.6	921.3	1 640.1	4 950.4	6 798.0	11 707.2	352.5	3.17	71	89	17 268.5	
1963 CENSUS.	7 784	2 946	530.6	2 092.1	444.4	890.2	1 527.5	4 566.5	(NA)	(NA)	314.4	3.13	69	87	16 958.4	
CHARLOTTE-GASTONIA SMSA																
1977 CENSUS.	1 401	548	87.1	894.7	64.2	126.2	547.8	1 885.1	2 592.6	4 460.9	108.5	.44	100	100	19 596.9	
1976 ASM....	(NA)	(NA)	82.9	770.4	61.9	119.8	474.2	1 579.0	2 151.7	3 729.4	97.9	.44	95	96	18 753.0	
1975 ASM....	(NA)	(NA)	78.6	676.7	59.0	110.3	412.1	1 375.4	1 918.7	3 275.2	105.8	.43	90	94	18 302.2	
1974 ASM....	(NA)	(NA)	87.2	701.7	66.5	130.2	437.8	1 483.2	1 971.6	3 408.1	98.8	.44	100	102	19 844.8	
1973 ASM....	(NA)	(NA)	91.1	679.3	69.4	140.1	437.4	1 331.8	1 689.6	3 014.7	104.3	.46	105	102	19 897.9	
1972 CENSUS.	1 198	533	88.4	620.4	67.0	140.8	393.9	1 239.3	1 497.3	2 682.6	102.9	.46	102	98	19 028.7	
GREENSBORO--WINSTON-SALEM--HIGH POINT SMSA																
1977 CENSUS.	1 741	729	144.2	1 624.5	106.9	206.2	975.3	4 285.3	4 291.1	8 532.2	221.5	.74	100	100	19 596.9	
1976 ASM....	(NA)	(NA)	137.9	1 413.3	104.3	200.7	874.1	3 691.2	3 923.7	7 576.6	228.4	.74	96	96	18 753.0	
1975 ASM....	(NA)	(NA)	135.0	1 280.2	100.3	187.3	764.1	3 300.6	3 441.0	6 777.8	222.3	.74	94	94	18 302.2	
1974 ASM....	(NA)	(NA)	147.9	1 339.1	108.1	207.6	773.7	3 223.2	3 347.5	6 524.0	177.7	.75	103	102	19 844.8	
1973 ASM....	(NA)	(NA)	144.0	1 129.3	110.0	214.3	723.1	2 847.5	2 993.1	5 813.7	165.2	.72	100	102	19 897.9	
1972 CENSUS.	1 559	107	138.0	1 022.4	106.0	209.4	658.2	2 593.4	2 596.9	5 157.6	148.5	.73	96	98	19 028.7	
1971 ASM....	(NA)	(NA)	116.2	837.1	84.2	174.1	490.1	2 191.3	1 945.7	4 133.7	94.2	.63	81	94	18 363.1	
1970 ASM....	(NA)	(NA)	119.1	794.3	88.1	181.2	480.9	2 086.3	1 885.5	3 952.4	90.5	.62	83	99	19 217.2	
1969 ASM....	(NA)	(NA)	115.9	699.6	87.8	171.0	439.4	1 843.6	1 743.3	3 579.0	111.6	.58	80	103	20 035.5	
1968 ASM....	(NA)	(NA)	114.7	641.7	89.2	173.2	415.4	1 720.8	1 659.3	3 376.3	99.7	.59	80	100	19 527.6	
1967 CENSUS.	1 162	517	110.9	596.6	86.8	169.4	382.4	1 567.0	1 607.0	3 162.7	80.3	.57	77	99	19 323.2	
1963 CENSUS.	1 092	459	96.6	431.1	76.0	147.7	279.7	1 169.9	(NA)	(NA)	44.3	.57	67	87	16 958.4	

(NA) Not available.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
NORTH CAROLINA									
1977 CENSUS.....	9 824	80	1 941	4.29	56	75	23 821	41	15.36
1976 ASM.....	9 007	80	1 930	3.94	56	75	21 413	42	13.86
1975 ASM.....	8 226	79	1 869	3.67	56	75	19 003	43	12.82
1974 ASM.....	7 712	80	1 923	3.35	57	76	17 803	43	11.55
1973 ASM.....	6 989	81	1 968	3.05	55	74	16 124	43	10.08
1972 CENSUS.....	6 628	81	2 005	2.83	55	76	14 810	45	9.10
1971 ASM.....	6 105	81	1 976	2.64	53	74	14 055	43	8.78
1970 ASM.....	5 713	82	1 968	2.48	54	75	12 935	44	8.05
1969 ASM.....	5 430	82	1 992	2.36	55	76	11 847	46	7.22
1968 ASM.....	5 117	83	2 001	2.22	56	76	11 321	45	6.81
1967 CENSUS.....	4 766	84	1 990	2.07	57	77	10 270	46	6.17
1966 ASM.....	4 586	84	2 049	1.93	58	78	10 023	46	5.85
1965 ASM.....	4 344	83	2 043	1.85	58	77	9 595	45	5.63
1964 ASM.....	4 166	83	2 027	1.78	58	78	9 052	46	5.37
1963 CENSUS.....	3 943	84	2 003	1.72	(NA)	(NA)	8 606	46	5.13
CHARLOTTE-GASTONIA SMSA									
1977 CENSUS.....	10 273	74	1 967	4.34	58	78	21 645	47	14.94
1976 ASM.....	9 293	75	1 935	3.96	58	78	19 047	49	13.18
1975 ASM.....	8 609	75	1 869	3.74	59	79	17 499	49	12.47
1974 ASM.....	8 047	76	1 958	3.36	58	78	17 009	47	11.39
1973 ASM.....	7 457	76	2 019	3.12	56	79	14 619	51	9.51
1972 CENSUS.....	7 685	69	1 965	3.12	55	78	15 733	49	11.62
GREENSBORO--WINSTON-SALEM--HIGH POINT SMSA									
1977 CENSUS.....	11 264	74	1 930	4.73	50	69	29 714	38	20.78
1976 ASM.....	10 249	76	1 924	4.36	52	70	26 767	38	18.39
1975 ASM.....	9 483	74	1 867	4.08	51	70	24 449	39	17.62
1974 ASM.....	9 054	73	1 920	3.73	51	72	21 793	42	15.53
1973 ASM.....	7 842	76	1 948	3.37	51	71	19 774	40	13.29
1972 CENSUS.....	7 409	77	1 975	3.14	50	70	18 793	39	12.38
1971 ASM.....	7 204	72	2 068	2.82	47	67	18 858	38	12.59
1970 ASM.....	6 669	74	2 057	2.65	48	68	17 517	38	11.51
1969 ASM.....	6 036	76	1 948	2.57	49	68	15 907	38	10.78
1968 ASM.....	5 595	78	1 942	2.40	49	68	15 003	37	9.94
1967 CENSUS.....	5 380	78	1 952	2.26	51	70	14 130	38	9.25
1963 CENSUS.....	4 463	79	1 943	1.89	(NA)	(NA)	12 111	37	7.92

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹ -----	number ----	9 954	8 632
With 1 to 19 employees-----	do -----	5 949	4 838
With 20 to 99 employees-----	do -----	2 240	2 102
With 100 employees or more-----	do -----	1 765	1 692
All employees, average for year ¹ -----	1,000 -----	765.3	743.7
Payroll for year, all employees ¹ -----	mil. dollars --	7 518.5	4 929.1
Production workers:			
Average for year-----	1,000 -----	611.3	604.0
March-----	do -----	596.0	591.5
May-----	do -----	605.4	595.2
August-----	do -----	620.4	611.2
November-----	do -----	622.3	618.2
Hours-----	millions ----	1 186.5	1 211.0
January to March-----	do -----	287.5	295.6
April to June-----	do -----	300.8	304.8
July to September-----	do -----	296.3	299.2
October to December-----	do -----	302.0	311.4
Wages-----	mil. dollars --	5 086.3	3 427.3
Cost of materials, etc. ² -----	do -----	23 009.8	13 296.7
Materials, parts, containers, etc., consumed-----	do -----	20 630.7	11 872.6
Resales-----	do -----	1 005.0	808.9
Fuels consumed-----	do -----	471.9	140.6
Purchased electric energy-----	do -----	488.8	180.7
Contract work-----	do -----	415.5	294.0
Value of shipments, including resales ² -----	do -----	40 912.2	24 123.9
Value of resales-----	do -----	1 174.3	926.7
Value added by manufacture-----	do -----	18 230.6	11 014.5
Manufacturers' inventories:			
Beginning of year-----	do -----	5 767.0	3 578.0
Finished products-----	do -----	1 501.4	949.1
Work in process-----	do -----	1 236.6	801.0
Materials, supplies, fuel, etc.-----	do -----	3 029.0	1 827.9
End of year-----	do -----	6 088.5	3 815.1
Finished products-----	do -----	1 570.6	978.7
Work in process-----	do -----	1 474.9	896.0
Materials, supplies, fuel, etc.-----	do -----	3 042.9	1 940.4
Capital expenditures for plant and equipment-----	do -----	1 506.9	1 048.4
New capital expenditures-----	do -----	1 345.3	986.8
New buildings and other structures-----	do -----	241.5	204.4
New machinery and equipment-----	do -----	1 103.9	782.4
Used capital expenditures-----	do -----	161.5	61.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Including central administrative offices and auxiliaries (for definition, see appendix B).

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	174.5	4
Beginning of year.....	13,460.1	1	Buildings and other structures.....	73.9	7
New capital expenditures.....	1,398.0	1	Machinery and equipment.....	100.6	4
Used capital expenditures.....	180.7	4			
Retirements.....	664.0	2	Depreciation charges during 1977:		
End of year.....	14,374.8	1	Total.....	991.6	2
Buildings and other structures:			Buildings and other structures.....	179.7	1
Beginning of year.....	3,522.6	1	Machinery and equipment.....	811.9	2
New capital expenditures.....	251.2	4			
Used capital expenditures.....	33.3	12	Supplemental labor costs:		
Retirements.....	119.8	4	Total.....	1,127.9	1
End of year.....	3,687.2	1	Legal costs.....	517.5	1
Machinery and equipment:			Voluntary costs.....	610.4	1
Beginning of year.....	9,937.7	1			
New capital expenditures.....	1,146.8	1	Purchased services:		
Automobiles, trucks, etc., for highway use...	39.8	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	16.1	(NA)	Buildings and other structures.....	52.2	5
All other.....	969.3	(NA)	Response coverage ratio (percent).....	59	(X)
New machinery and equipment, n.s.k.....	121.6	(NA)	Machinery.....	247.4	14
Used capital expenditures.....	147.5	4	Response coverage ratio (percent).....	59	(X)
Retirements.....	544.2	2	Cost of purchased communication services.....	(107.7)	33
End of year.....	10,687.8	1	Response coverage ratio (percent).....	62	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977											1972	
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital ex- penditures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
North Carolina -----	-	9 954	4 005	755.3	7 518.5	611.3	1 186.5	5 086.3	18 230.6	23 009.8	40 912.2	1 345.3	743.7	11 014.5
STANDARD METROPOLITAN STATISTICAL AREAS														
Asheville -----	-	248	117	19.8	193.3	14.4	27.6	116.9	425.3	389.2	799.2	27.0	21.8	311.1
Burlington -----	-	255	124	20.1	186.8	16.8	32.8	134.4	382.3	584.5	961.7	19.6	24.3	294.3
Charlotte-Gastonia -----	-	1 401	548	87.1	894.7	64.2	126.2	547.8	1 885.1	2 592.6	4 460.9	108.5	88.4	1 239.3
Fayetteville -----	-	141	53	9.9	103.3	7.8	15.5	73.9	250.9	541.9	795.1	33.1	10.5	195.1
Greensboro-Winston-Salem-High Point -----	-	1 741	729	144.2	1 624.5	106.9	206.2	975.3	4 285.3	4 291.1	8 532.2	221.5	138.0	2 593.4
Norfolk-Virginia Beach-Portsmouth, Va.-N.C. -----	-	537	190	26.7	326.2	19.4	38.9	211.3	1 083.3	1 850.2	2 950.9	50.1	27.6	551.7
Portion in Virginia -----	-	531	189	26.6	325.6	19.4	38.8	210.8	1 079.4	1 840.8	2 937.1	50.1	27.5	550.1
Portion in North Carolina -----	-	6	1	0.1	0.6	0.1	0.1	0.4	4.0	9.5	13.7	(Z)	0.1	1.6
Raleigh-Durham -----	-	550	179	36.7	474.3	22.4	43.8	217.1	1 109.4	1 495.3	2 531.1	75.7	32.2	567.6
Wilmington -----	-	183	64	13.0	166.6	9.3	18.4	103.6	747.8	748.3	1 508.4	29.2	12.1	481.7
COUNTIES														
Alamance -----	-	255	124	20.1	186.8	16.8	32.8	134.4	382.3	584.5	961.7	19.6	24.3	294.3
Alexander -----	E1	80	25	3.4	25.5	3.1	5.9	21.9	50.2	75.0	124.9	4.9	2.8	27.2
Alleghany -----	-	19	4	1.3	8.0	1.2	2.2	7.0	11.7	16.7	27.6	1.3	1.3	13.1
Anson -----	-	63	23	3.5	29.1	3.1	6.1	21.7	65.1	76.3	142.1	5.6	3.1	40.5
Ashe -----	-	51	10	2.8	20.0	2.7	4.9	18.1	43.4	31.9	74.4	2.0	2.4	24.5
Avery -----	E1	10	2	0.2	1.4	0.1	0.3	0.9	3.5	5.9	9.4	0.1	1.0	10.4
Beaufort -----	-	73	25	5.0	44.0	4.1	8.3	31.7	93.0	123.7	216.2	9.1	4.4	45.0
Bertie -----	-	41	13	2.4	19.4	2.2	4.1	14.7	30.0	64.1	92.2	4.3	1.4	14.3
Bladen -----	-	72	15	2.4	17.2	2.1	4.3	13.4	40.3	44.7	84.9	2.7	2.3	19.3
Brunswick -----	E1	48	8	0.7	8.3	0.6	1.2	5.4	22.5	32.2	53.5	2.7	0.5	7.9
Buncombe -----	-	238	114	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Burke -----	-	154	75	17.8	154.6	14.9	28.3	107.7	271.1	376.2	645.6	13.6	19.4	213.7
Cabarrus -----	-	111	53	21.1	176.1	18.6	34.6	144.1	335.8	472.6	754.3	16.9	25.6	206.0
Caldwell -----	-	162	83	17.2	144.5	15.1	30.6	113.3	286.8	296.9	583.0	13.6	16.2	191.7
Camden -----	E6	8	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Carteret -----	-	58	13	1.7	13.4	1.5	2.7	10.2	29.2	48.0	78.1	2.4	1.3	18.7
Caswell -----	-	8	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	12.7
Catawba -----	-	560	272	35.5	306.6	30.0	56.2	226.0	614.1	766.1	1 371.7	32.1	34.0	389.6
Chatham -----	-	87	31	5.4	47.6	4.7	8.9	36.8	120.9	209.1	329.3	10.9	4.9	60.0
Cherokee -----	-	33	12	2.0	15.0	1.7	3.5	11.9	33.6	29.5	62.1	1.3	2.9	25.3
Chowan -----	-	31	13	1.4	12.3	1.3	2.6	9.6	25.5	30.9	55.9	1.3	1.2	16.7
Clay -----	E1	11	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	2.5
Cleveland -----	-	167	74	15.9	155.8	13.5	27.0	121.1	344.8	477.8	814.7	38.3	16.4	246.7
Columbus -----	-	93	28	5.2	57.8	4.3	8.8	43.6	164.9	198.2	363.3	29.6	5.0	89.6
Craven -----	-	97	32	3.4	36.6	2.7	5.2	27.0	97.7	129.9	224.1	12.4	3.3	46.0
Cumberland -----	-	141	53	9.9	103.3	7.8	15.5	73.9	250.9	541.9	795.1	33.1	10.5	195.1
Currituck -----	-	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	1.6
Dare -----	E3	18	1	0.1	1.6	0.1	0.2	1.1	3.1	3.6	6.7	0.6	0.1	1.4
Davidson -----	-	283	107	23.4	212.6	19.9	38.7	158.6	427.8	422.8	844.5	25.2	21.0	261.3
Davie -----	-	51	20	2.8	25.5	2.2	3.7	15.7	56.4	166.8	228.1	9.0	2.6	27.0
Duplin -----	-	61	19	3.6	29.4	3.1	6.2	23.6	62.0	150.2	215.9	6.3	3.7	46.0
Durham -----	-	146	56	16.0	248.8	8.1	15.6	91.0	546.4	984.1	1 463.5	44.0	14.6	301.5
Edgecombe -----	-	59	35	6.6	62.7	5.4	11.0	44.2	185.1	223.0	406.4	13.1	6.5	96.4
Forsyth -----	-	292	121	41.7	572.7	28.7	55.2	335.2	2 140.0	1 707.0	3 828.1	90.4	38.7	1 155.4
Franklin -----	-	58	15	2.4	17.2	2.2	3.9	14.4	35.7	48.5	81.8	4.1	2.2	22.4
Gaston -----	-	423	182	38.3	349.2	31.9	63.4	259.4	722.3	1 065.6	1 791.0	45.3	42.3	514.6
Gates -----	E1	18	2	0.1	1.1	0.1	0.2	0.8	4.3	4.2	8.4	0.2	0.2	2.3
Graham -----	E1	11	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.7
Granville -----	-	47	23	3.2	28.3	2.5	5.1	18.8	65.1	120.6	185.4	6.4	3.3	43.7
Greene -----	-	10	5	0.4	3.3	0.4	0.7	2.6	7.9	16.1	23.1	0.4	0.4	3.1
Guilford -----	-	836	373	55.8	634.2	38.5	75.1	331.8	1 267.4	1 383.8	2 644.1	65.2	56.0	912.8
Halifax -----	-	96	35	5.9	58.0	5.1	10.5	45.5	114.8	160.3	274.0	5.3	6.4	83.0
Harnett -----	-	45	17	5.4	47.1	4.7	9.4	36.6	102.3	140.9	237.8	6.3	4.5	50.2
Haywood -----	-	33	13	5.3	70.7	4.3	8.7	54.6	211.6	269.8	474.2	(D)	5.7	111.1
Henderson -----	-	93	30	4.8	54.2	3.7	7.3	34.6	208.8	120.0	326.2	6.8	4.5	80.6
Hertford -----	-	47	13	2.2	18.4	1.8	3.3	13.4	44.8	97.1	139.6	4.3	2.0	36.0
Hoke -----	E2	11	7	3.5	27.9	3.0	5.9	19.4	48.2	152.1	201.3	3.0	3.0	35.0
Hyde -----	E1	8	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Iredell -----	-	184	84	15.7	131.5	13.4	25.8	97.1	284.0	343.1	627.0	56.0	15.9	183.6
Jackson -----	E2	17	6	1.5	10.1	1.3	2.4	7.9	19.3	17.2	36.4	0.8	1.6	13.3
Johnston -----	-	107	32	7.2	62.0	6.0	11.0	45.1	216.8	307.1	513.5	6.0	7.0	84.7
Jones -----	E2	14	2	0.3	1.4	0.2	0.4	1.2	2.2	1.3	3.5	0.2	0.3	1.6
Lee -----	-	100	37	7.0	65.7	5.7	10.9	41.7	173.3	179.4	355.4	13.0	6.4	88.9
Lenoir -----	-	80	39	9.0	99.2	6.9	13.4	63.5	242.1	338.5	578.6	15.1	7.3	139.1
Lincoln -----	-	102	42	6.8	56.6	6.0	11.5	45.2	108.9	146.0	251.6	13.9	6.7	77.1
McDowell -----	-	66	31	10.8	88.6	9.6	17.4	71.5	178.5	180.8	353.4	21.8	7.3	96.5
Macon -----	-	33	7	0.9	7.2	0.8	1.4	5.2	28.6	13.8	41.1	2.2	0.9	7.8
Madison -----	-	10	3	0.3	2.0	0.3	0.6	1.8	3.9	7.9	11.5	(D)	(D)	(D)
Martin -----	-	37	12	2.1	17.0	1.8	3.6	13.5	27.1	76.5	104.9	1.8	1.9	22.1
Mecklenburg -----	-	852	309	40.0	471.4	25.1	48.9	237.4	1 018.4	1 233.8	2 227.4	52.7	38.3	624.9
Mitchell -----	-	26	7	1.5	11.8	1.5	2.8	10.8	23.6	17.4	40.3	(D)	1.5	11.5
Montgomery -----	-	100	37	6.0	46.3	5.2	9.3	34.8	79.9	89.7	168.1	5.6	5.5	52.2
Moore -----	-	77	27	4.6	39.1	4.1	7.9	32.3	95.9	145.4	241.3	4.3	3.9	50.4
Nash -----	-	114	63	12.4	104.2	10.7	20.8	81.4	248.7	379.2	623.9	24.7	9.4	107.6
New Hanover -----	-	135	56	12.2	158.3	8.7	17.2	98.2	725.3	716.1	1 454.8	26.5	11.7	473.8
Northampton -----	-	40	18	1.8	12.5	1.6	2.9	10.0	27.8	37.5	66.1	3.7	1.5	19.8
Onslow -----	-	40	12	1.9	14.4	1.7	3.1	11.1	31.8	64.5	95.2	6.6	1.7	14.3
Orange -----	-	58	13	1.9	17.7	1.6	3.2	13.5	29.3	45.0	73.5	1.5	2.1	16.8
Pamlico -----	E1	18	4	0.2	2.4	0.2	0.5	1.7	3.7	9.5	13.2	(D)	0.2	1.4

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972		
	E ¹	All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
COUNTIES—Con.														
Pasquotank	-	36	12	1.5	13.3	1.2	2.2	9.1	28.0	22.7	51.7	1.5	1.6	17.6
Pender	-	22	6	0.5	3.9	0.4	0.7	2.9	4.6	13.5	17.9	0.3	0.3	2.9
Perquimans	-	14	-	0.1	0.6	0.1	0.1	0.4	1.1	1.7	2.8	0.1	0.3	1.7
Person	-	34	13	4.0	37.1	3.4	7.1	29.0	80.4	105.4	184.3	2.6	4.3	53.4
Pitt	-	92	36	7.0	69.3	5.3	11.0	43.2	252.9	286.6	535.5	11.1	6.0	132.8
Polk	-	26	7	0.8	6.4	0.6	1.2	4.6	14.9	49.4	64.3	1.8	1.0	8.1
Randolph	-	274	111	20.9	184.8	17.7	33.2	135.4	392.7	480.2	864.4	29.6	18.5	239.7
Richmond	-	64	34	6.3	54.6	5.6	11.5	45.1	147.2	153.6	296.2	6.4	5.1	44.5
Robeson	-	126	58	11.0	85.4	9.5	18.3	68.9	207.8	246.7	453.7	9.4	10.5	117.4
Rockingham	-	103	54	16.7	162.4	13.7	27.0	116.7	438.3	805.3	1 231.7	115.4	17.2	306.2
Rowan	-	162	67	14.1	130.3	11.7	21.6	96.6	400.1	508.1	902.6	23.1	13.5	233.1
Rutherford	-	85	40	10.3	92.9	9.0	18.1	73.9	188.7	201.9	388.6	16.6	9.7	146.4
Sampson	-	73	29	4.5	36.8	3.9	7.5	28.1	100.2	181.9	281.1	(D)	3.9	49.0
Scotland	-	42	24	6.4	66.4	5.6	12.3	56.0	148.5	305.2	442.4	8.7	6.2	70.0
Stanly	-	99	43	9.4	82.4	8.3	16.2	65.7	336.7	269.2	599.3	11.7	10.6	137.3
Stokes	-	25	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Surry	-	118	50	13.6	102.6	12.5	23.4	84.5	217.8	273.8	482.6	9.7	13.7	158.0
Swain	-	14	7	1.1	7.3	1.0	1.8	5.2	14.5	18.0	33.0	0.5	1.0	9.4
Transylvania	-	18	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Tyrrell	-	14	5	0.2	1.7	0.2	0.4	1.3	4.0	3.3	7.2	0.5	0.2	1.5
Union	-	126	57	8.8	74.1	7.2	13.9	51.0	144.4	293.2	442.5	10.5	7.8	99.8
Vance	-	52	33	6.8	57.0	5.9	11.5	45.5	107.9	148.0	258.1	8.4	6.5	75.3
Wake	-	346	110	18.8	207.8	12.7	24.9	112.7	533.7	466.2	994.1	30.2	15.5	249.3
Warren	-	39	7	0.9	6.6	0.8	1.7	5.5	9.1	20.8	29.6	0.6	1.0	7.0
Washington	-	24	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Watauga	-	45	8	2.1	16.2	1.8	3.4	12.5	32.6	19.8	52.6	1.1	2.0	22.3
Wayne	-	86	41	6.8	58.3	5.3	10.9	38.7	126.6	163.4	288.6	(D)	5.5	73.8
Wilkes	-	119	33	8.2	65.1	7.1	13.8	49.5	134.5	279.9	417.8	5.9	7.4	90.0
Wilson	-	76	39	7.7	77.4	6.1	11.7	54.9	211.4	350.5	555.2	13.3	6.4	92.6
Yadkin	-	31	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Yancey	-	26	8	1.3	9.6	1.2	2.0	8.1	19.9	33.0	52.5	0.4	1.0	9.6
CITIES														
Ahoskie	-	20	6	1.0	8.7	0.8	1.5	6.8	21.0	52.4	70.1	1.8	1.2	24.7
Albemarle	-	35	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.0	84.9
Archdale	-	25	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Asheboro	-	109	47	9.7	91.9	7.9	14.7	62.3	213.8	240.9	451.0	14.1	7.9	123.2
Asheville	-	132	53	5.0	44.1	3.4	6.4	25.5	95.7	119.5	210.8	4.8	6.1	81.0
Belmont	-	34	21	3.6	29.6	3.3	6.6	25.1	51.2	91.9	143.8	2.8	3.2	26.8
Bessemer City	-	26	8	1.8	18.3	1.5	3.2	14.3	56.3	42.3	98.7	3.3	1.9	26.3
Black Mountain	-	11	5	0.9	8.0	0.7	1.4	5.5	14.0	9.9	23.1	0.5	(D)	(D)
Boone	-	32	8	2.0	15.9	1.7	3.3	12.2	31.8	18.6	50.7	1.1	2.0	21.5
Burlington	-	141	66	9.5	92.4	7.4	14.4	59.7	194.0	348.6	541.5	10.0	14.2	180.2
Canton	-	10	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cary	-	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Charlotte	-	636	227	27.8	327.5	16.0	31.1	146.7	605.8	767.2	1 364.2	34.8	26.0	441.7
Cherryville	-	20	11	1.5	10.0	1.3	2.4	8.4	16.1	24.1	41.5	0.7	2.2	25.2
Clayton	-	17	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Clinton	-	23	12	1.8	17.7	1.4	2.7	12.6	32.4	112.7	144.7	(D)	1.8	21.6
Concord	-	68	38	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.7	68.1
Conover	-	62	26	4.1	34.6	3.4	6.4	25.9	69.0	95.1	163.5	2.3	3.2	36.6
Dallas	-	25	7	0.6	5.6	0.6	1.1	4.7	9.9	8.7	17.8	0.3	(D)	(D)
Davidson	-	7	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dunn	-	24	9	1.8	14.4	1.3	2.6	8.7	26.4	49.0	75.0	(D)	(D)	(D)
Durham	-	115	42	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Edenton	-	29	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Eden	-	33	19	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Elizabeth City	-	36	12	1.5	13.3	1.2	2.2	9.1	28.0	22.7	51.7	1.5	(D)	(D)
Elkin	-	12	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.7	56.7
Erwin	-	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Fairmont	-	18	5	1.0	6.1	1.0	2.0	5.6	10.1	6.3	16.1	0.2	(D)	(D)
Farmville	-	12	5	1.3	11.2	1.0	2.2	8.0	26.2	49.4	74.1	(D)	1.4	15.3
Fayetteville	-	78	32	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.3	122.4
Forest City	-	26	11	1.8	16.9	1.6	3.2	13.2	41.7	47.1	87.4	4.7	1.8	23.7
Fuquay-Varina	-	26	8	0.9	8.0	0.8	1.8	5.7	16.4	15.4	31.7	0.7	0.5	7.5
Gastonia	-	236	85	14.6	142.7	11.4	22.3	99.1	288.0	461.3	753.9	19.6	17.1	231.4
Goldsboro	-	53	18	2.4	21.5	1.6	3.2	12.1	46.0	59.5	105.5	(D)	2.7	42.1
Graham	-	40	17	2.5	19.9	2.3	4.3	16.1	33.0	49.3	82.2	2.2	2.7	25.8
Greensboro	-	341	147	23.7	293.5	16.5	33.0	160.5	657.4	762.4	1 412.2	40.2	27.3	474.5
Greenville	-	53	20	4.0	43.3	2.9	6.1	24.3	211.6	205.5	413.2	(D)	2.5	95.1
Hamlet	-	18	8	0.6	4.4	0.5	1.0	3.2	10.0	10.8	20.7	0.5	(NA)	(NA)
Henderson	-	44	27	5.0	37.7	4.4	8.3	30.5	69.7	100.7	171.9	(D)	4.6	52.8
Hendersonville	-	39	9	0.7	7.1	0.5	0.9	3.6	16.7	14.4	30.9	0.5	1.0	9.6
Hickory	-	251	123	15.0	133.7	12.6	23.8	97.1	268.2	335.2	599.5	13.2	17.0	196.8
High Point	-	359	177	22.4	200.4	18.0	33.9	134.8	390.0	448.1	837.9	(D)	23.6	295.6
Hudson	-	19	7	1.1	9.5	1.0	2.2	7.9	18.5	21.6	39.8	1.7	(NA)	(NA)
Kannapolis (U)	-	22	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kernersville	-	37	12	2.3	26.3	1.9	3.6	19.9	50.6	71.7	119.8	2.2	2.2	27.9
Kings Mountain	-	49	26	3.8	29.9	3.5	6.8	23.5	50.0	107.4	157.5	7.1	4.1	44.4
Kinston	-	58	30	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Laurinburg	-	28	11	3.0	31.3	2.6	5.6	26.3	64.3	62.0	126.7	2.2	1.4	15.2
Lenoir	-	102	46	12.2	103.9	10.7	21.9	81.8	204.6	195.6	399.7	9.8	12.4	148.9
Lexington	-	93	35	9.1	83.3	7.9	15.4	63.2	167.2	175.1	341.5	7.7	8.1	104.9

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area		1977										1972			
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mill- ions)	Wages (million dollars)							
E1															
CITIES—Con.															
Lincolnton	-	83	28	2.7	22.1	2.4	4.5	16.5	46.8	66.0	110.8	5.2	4.2	43.9	
Longview	-	32	23	2.6	20.7	2.1	4.1	15.2	41.0	41.2	81.5	2.0	1.0	12.0	
Louisburg	-	37	8	1.1	7.6	1.1	1.8	6.7	15.6	20.5	33.6	(D)	0.9	7.0	
Lowell	-	10	4	0.7	6.3	0.6	1.2	4.6	9.5	23.5	31.8	(D)	0.7	4.0	
Lumberton	-	51	27	6.2	49.4	5.2	9.7	39.2	139.3	135.5	273.8	6.5	6.2	63.1	
Marion	-	46	19	7.3	58.8	6.6	11.5	48.5	136.8	106.2	238.2	19.1	5.3	77.3	
Mayodan	-	6	4	2.5	20.3	2.3	4.4	17.0	39.3	101.2	140.8	(D)	(D)	(D)	
Mocksville	-	41	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	25.2	
Monroe	-	75	40	6.6	55.2	5.3	10.1	36.6	88.6	217.0	310.8	7.8	5.5	73.7	
Mooresville	-	30	12	4.4	36.2	3.9	7.5	29.4	66.1	87.7	153.4	(D)	4.7	36.5	
Morehead City	-	23	5	0.7	5.3	0.6	1.0	3.9	8.2	12.6	21.2	0.4	(NA)	(NA)	
Morganton	-	35	24	8.4	71.8	7.3	14.0	52.9	135.3	133.7	268.3	6.5	9.8	121.4	
Mount Airy	-	81	32	8.5	60.7	7.7	14.9	48.4	121.3	124.6	238.6	5.5	8.7	84.7	
Mount Holly	-	20	15	2.1	18.8	1.7	3.3	12.5	42.6	68.6	110.1	4.5	1.9	24.2	
Mount Olive	-	13	6	1.3	9.3	1.1	2.6	6.9	20.5	15.4	35.9	0.3	0.8	6.5	
Murfreesboro	-	8	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
New Bern	-	60	23	1.9	22.5	1.5	2.7	16.1	58.1	93.2	148.8	11.4	2.1	28.5	
Newton	-	70	34	5.2	39.9	4.6	8.5	32.2	76.7	105.2	179.5	3.4	5.1	57.2	
North Wilkesboro	-	48	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	38.7	
Oxford	-	25	10	1.3	10.5	1.0	2.0	7.2	28.3	44.1	70.6	3.6	2.5	35.0	
Plymouth	-	19	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Raeford	-	10	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	35.0	
Raleigh	-	191	55	9.6	110.6	6.1	11.9	57.3	279.1	272.8	544.4	16.8	8.1	137.1	
Red Springs	-	8	5	0.8	7.4	0.7	1.5	6.1	14.1	24.1	38.4	0.3	(D)	(D)	
Reidsville	-	31	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Roanoke Rapids	-	34	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Rockingham	-	29	14	2.2	18.8	1.9	4.0	15.1	54.3	73.0	125.8	2.8	1.4	6.7	
Rocky Mount	-	79	44	10.1	90.2	8.5	16.8	69.2	234.4	395.3	625.6	(D)	7.7	101.6	
Roxboro	-	31	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Rutherfordton	-	28	11	1.9	16.2	1.6	3.4	11.6	29.4	31.5	61.2	1.7	1.5	20.4	
Salisbury	-	101	43	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.7	86.1	
Sanford	-	87	29	5.1	43.1	4.4	8.3	32.3	98.7	88.9	201.4	9.9	5.6	81.2	
Scotland Neck	-	12	4	0.6	3.6	0.5	1.0	3.2	7.2	8.2	15.3	0.3	(NA)	(NA)	
Selma	-	7	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	6.9	
Shelby	-	49	24	4.9	45.6	4.0	8.0	34.8	78.0	103.3	181.4	(D)	6.8	98.7	
Siler City	-	29	15	2.7	22.2	2.4	4.5	17.6	42.5	72.3	114.4	2.1	2.7	34.7	
Smithfield	-	29	9	1.4	11.9	1.2	2.1	7.7	30.4	76.0	105.5	1.4	(D)	(D)	
Southern Pines	-	14	6	0.8	7.7	0.7	1.4	6.6	22.2	7.9	30.0	0.2	(NA)	(NA)	
Spindale	-	10	7	3.1	27.7	2.7	5.2	21.9	51.5	45.5	97.3	5.3	2.8	71.4	
Statesville	-	81	53	7.9	67.1	6.7	13.0	47.6	161.2	184.8	347.9	36.6	8.0	100.2	
Tarboro	-	25	16	4.2	40.5	3.5	7.1	28.6	130.8	103.8	235.4	7.1	4.2	57.0	
Thomasville	-	114	44	8.5	74.3	6.9	13.3	52.2	131.5	126.5	255.7	6.1	8.1	89.4	
Valdese	-	22	14	3.8	32.7	3.1	5.6	22.4	57.6	69.5	126.3	2.7	4.3	44.3	
Wadesboro	-	32	10	2.3	19.7	2.0	4.1	14.2	39.1	50.5	89.2	4.0	2.1	26.7	
Wake Forest	-	16	7	0.8	10.3	0.6	1.2	5.4	18.7	29.7	53.4	3.3	0.6	7.0	
Wallace	-	18	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Washington	-	36	14	3.1	30.6	2.5	5.2	22.1	59.8	83.3	143.0	7.3	2.6	18.0	
Waynesville	-	15	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Whiteville	-	29	12	1.8	17.1	1.5	3.1	12.6	54.8	72.7	127.5	(D)	1.7	27.0	
Wilmington	-	114	42	6.5	63.8	4.8	9.4	43.5	179.7	239.2	419.6	8.9	7.7	192.0	
Wilson	-	64	34	6.4	66.3	5.1	9.7	47.5	191.5	300.9	485.9	10.9	5.4	82.2	
Winston-Salem	-	205	91	33.3	479.3	22.0	42.6	267.2	1 865.2	1 390.4	3 240.6	80.5	32.3	1 062.0	
Woodfin	-	2	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	All Industries -----	-	9 954	4 005	765.3	7 518.5	611.3	1 186.5	5 086.3	18 230.6	23 009.8	40 912.2	1 345.3	743.7	11 014.5
20	Food and kindred products -----	-	666	275	39.1	389.5	25.2	49.7	210.8	977.7	2 618.7	3 601.5	176.6	37.4	639.8
201	Meat products -----	-	158	48	11.9	97.3	10.2	19.3	74.2	166.2	859.9	1 029.6	20.2	11.4	123.3
2011	Meat packing plants -----	E2	82	15	2.5	28.2	1.9	3.6	18.9	49.2	279.3	329.1	9.2	2.4	37.1
2013	Sausages and other prepared meats -----	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2016	Poultry dressing plants -----	E1	45	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	18.9
		-	30	24	8.2	58.0	7.3	13.9	47.8	91.4	465.5	560.6	8.9	7.8	67.3
202	Dairy products -----	-	39	28	3.1	31.7	1.5	3.1	13.6	82.4	259.4	341.9	4.7	3.2	70.5
2024	Ice cream and frozen desserts -----	-	13	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2026	Fluid milk -----	-	24	21	2.8	28.5	1.2	2.6	11.7	69.6	227.7	297.5	4.2	2.9	62.8
203	Preserved fruits and vegetables -----	-	19	11	1.8	16.7	1.5	3.1	12.3	71.8	80.6	153.5	2.0	1.6	36.0
2032	Canned specialties -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2033	Canned fruits and vegetables -----	-	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2035	Pickles, sauces, and salad dressings -----	-	7	5	0.9	9.0	0.7	1.6	6.4	22.7	29.6	53.5	0.5	0.7	7.7
204	Grain mill products -----	-	130	35	2.4	26.0	1.6	3.2	14.4	77.1	491.0	568.6	(D)	2.2	59.0
2041	Flour and other grain mill products -----	E1	30	8	0.6	6.2	0.4	0.9	4.1	16.6	74.1	90.5	1.4	BB	(D)
2045	Blended and prepared flour -----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2047	Dog, cat, and other pet food -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2048	Prepared feeds, n.e.c. -----	-	92	23	1.4	15.2	0.9	1.7	8.1	45.0	377.8	423.5	7.3	1.5	38.0
205	Bakery products -----	-	63	39	10.6	113.2	5.1	10.4	45.3	250.4	170.9	421.0	12.9	9.8	147.1
2051	Bread, cake, and related products -----	-	54	34	6.0	64.4	3.1	6.4	29.2	144.2	102.1	246.3	7.4	6.6	105.4
2052	Cookies and crackers -----	-	9	5	4.7	48.9	2.0	4.0	16.1	106.2	68.8	174.7	5.5	3.2	41.7
206	Sugar and confectionery products -----	-	14	2	0.2	2.0	0.2	0.4	1.2	5.2	10.1	15.3	0.2	BB	(D)
2065	Confectionery products -----	E1	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
207	Fats and oils -----	-	20	14	1.1	14.1	0.9	2.2	10.3	47.1	346.8	393.0	6.4	1.0	25.0
2076	Vegetable oil mills, n.e.c. -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2077	Animal and marine fats and oils -----	-	12	8	0.7	8.9	0.6	1.4	6.8	26.2	40.9	66.4	3.6	0.6	13.8
208	Beverages -----	-	100	64	5.3	63.1	2.2	4.3	23.3	227.6	297.7	525.1	113.7	5.8	147.8
2082	Malt beverages -----	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2086	Bottled and canned soft drinks -----	E1	92	61	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
209	Miscellaneous foods and kindred products -----	-	123	34	2.6	25.4	2.0	3.8	16.4	50.0	102.3	153.5	(D)	EE	(D)
2092	Fresh or frozen packaged fish -----	E1	45	14	0.7	5.4	0.6	1.2	4.0	13.0	31.8	44.8	(D)	0.3	2.1
2097	Manufactured ice -----	-	30	1	0.2	1.4	0.1	0.2	0.8	2.7	2.1	4.8	0.5	0.2	1.8
2099	Food preparations, n.e.c. -----	-	37	18	1.6	16.6	1.2	2.2	11.0	32.6	55.4	89.2	4.7	EE	(D)
21	Tobacco products -----	-	36	30	23.4	308.4	19.9	36.4	242.3	2 113.8	2 216.2	4 327.3	85.5	23.1	1 263.8
2111	Cigarettes -----	-	5	5	17.9	262.2	15.6	30.1	213.5	2 002.3	1 250.1	3 253.2	(D)	17.6	1 198.5
2131	Chewing and smoking tobacco -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2141	Tobacco stemming and redrying -----	-	28	23	5.3	43.8	4.1	8.0	27.1	97.1	953.0	1 046.7	(D)	FF	(D)
22	Textile mill products -----	-	1 372	952	245.3	2 093.5	219.5	435.3	1 715.7	4 267.4	6 877.1	11 053.7	310.0	275.6	3 013.4
2211	Weaving mills, cotton -----	-	50	40	35.4	327.3	32.4	65.1	284.3	636.3	878.8	1 446.3	48.7	32.5	294.0
2221	Weaving mills, manmade fiber and silk -----	-	79	74	40.6	381.4	36.3	73.8	312.1	774.5	1 060.6	1 828.6	64.5	44.1	528.4
2241	Narrow fabric mills -----	-	42	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	49.4
225	Knitting mills -----	-	700	447	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2251	Women's hosiery, except socks -----	-	115	81	17.9	129.1	15.9	29.4	105.1	283.3	297.9	579.7	11.6	29.5	263.4
2252	Hosiery, n.e.c. -----	-	281	168	20.3	138.7	18.5	33.6	116.0	252.7	339.4	589.9	7.9	19.4	178.3
2253	Knit outerwear mills -----	-	45	30	8.2	58.0	7.4	13.6	47.0	106.0	115.9	217.3	(D)	8.3	92.9
2254	Knit underwear mills -----	-	14	10	4.7	29.4	4.4	7.6	25.0	49.6	53.6	100.8	(D)	4.9	34.0
2257	Circular knit fabric mills -----	-	148	110	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	23.2	320.1
2258	Warp knit fabric mills -----	-	62	44	9.1	86.8	7.6	16.3	64.8	178.5	362.4	540.6	25.5	7.9	96.3
2259	Knitting mills, n.e.c. -----	E4	35	4	0.4	2.4	0.4	0.7	2.0	4.8	6.6	11.4	0.1	0.3	1.9
226	Textile finishing, except wool -----	-	78	64	12.6	123.3	10.3	21.1	91.5	303.6	500.3	809.8	(D)	15.2	217.0
2261	Finishing plants, cotton -----	-	15	10	2.1	20.1	1.8	3.5	15.5	35.8	65.4	101.8	2.1	5.0	58.4
2262	Finishing plants, synthetics -----	-	34	30	7.7	79.1	6.2	12.9	57.3	215.9	282.0	503.1	(D)	5.5	99.6
2269	Finishing plants, n.e.c. -----	-	29	24	2.8	24.1	2.4	4.8	18.6	51.8	152.9	204.9	3.1	4.7	58.9
227	Floor covering mills -----	-	40	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	53.2
2271	Woven carpets and rugs -----	-	9	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2272	Tufted carpets and rugs -----	-	19	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2279	Carpets and rugs, n.e.c. -----	-	12	2	0.3	2.0	0.3	0.4	1.4	3.7	3.6	7.3	0.1	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
22	Textile mill products— Con.														
228	Yarn and thread mills -----	-	268	235	65.2	535.5	59.4	120.2	452.7	1 016.4	1 867.6	2 879.2	76.0	73.3	752.9
2281	Yarn mills, except wool -----	-	185	166	46.9	382.3	43.5	88.4	332.1	704.8	1 141.9	1 852.5	55.5	48.7	447.7
2282	Throwing and winding mills --	-	58	50	13.1	114.0	11.5	23.6	90.4	222.1	552.2	768.3	18.5	18.6	227.8
2283	Wool yarn mills -----	-	9	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	13.4
2284	Thread mills -----	-	16	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.7	64.0
229	Miscellaneous textile goods ---	-	112	53	5.8	54.6	5.0	10.0	41.7	126.6	285.1	410.0	9.5	7.7	112.4
2291	Felt goods, except woven felts and hats -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BE	(D)
2293	Paddings and upholstery filling -----	E1	10	7	0.7	6.6	0.5	1.1	4.8	14.8	16.5	31.2	0.9	0.4	5.4
2294	Processed textile waste -----	-	11	8	0.4	3.7	0.4	0.7	2.7	8.5	18.6	27.6	0.7	0.5	5.2
2295	Coated fabrics, not rubberized -----	-	7	5	0.6	6.6	0.5	1.1	3.8	13.9	40.8	54.0	1.5	CC	(D)
2296	Tire cord and fabric -----	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2297	Nonwoven fabrics -----	-	10	9	1.0	9.8	0.9	1.9	7.6	26.5	36.5	63.0	4.4	EE	(D)
2298	Cordage and twine -----	-	13	7	0.7	5.4	0.7	1.2	4.3	11.0	9.8	20.9	(D)	1.0	9.9
2299	Textile goods, n.e.c. -----	E4	52	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	7.6
23	Apparel and other textile products -----	-	702	468	77.1	484.3	58.0	121.4	383.4	851.9	1 057.9	1 891.1	19.6	79.1	636.1
2311	Men's and boys' suits and coats -----	-	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
232	Men's and boys' furnishings ---	-	141	116	21.6	125.7	19.1	33.9	100.3	202.9	209.8	411.0	(D)	23.1	160.3
2321	Men's and boys' shirts and nightwear -----	-	85	71	13.6	77.1	12.2	22.1	61.6	122.9	131.9	251.5	2.0	11.4	80.8
2322	Men's and boys' underwear ---	-	8	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	25.6
2323	Men's and boys' neckwear --	-	9	5	0.7	4.9	0.7	1.1	3.8	11.5	8.6	19.7	(Z)	1.0	6.2
2327	Men's and boys' separate trousers -----	-	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	18.4
2328	Men's and boys' work clothing -----	-	21	19	2.9	18.1	2.5	4.4	14.2	31.2	27.0	57.9	0.5	3.9	22.9
2329	Men's and boys' clothing, n.e.c. -----	-	13	11	1.7	9.9	1.4	2.4	7.3	12.8	15.7	30.3	0.4	1.1	6.4
233	Women's and misses' outerwear -----	-	213	130	17.4	108.7	15.2	26.5	82.9	194.1	204.1	397.2	(D)	15.1	120.5
2331	Women's and misses' blouses and waists -----	-	40	31	5.0	32.2	4.5	8.0	23.7	54.7	58.8	113.1	1.4	3.7	27.6
2335	Women's and misses' dresses -----	E3	98	46	4.6	27.9	4.1	7.2	22.0	46.0	21.3	66.7	1.0	4.3	28.5
2337	Women's and misses' suits and coats -----	E2	19	14	1.9	11.5	1.7	2.9	8.5	17.5	10.5	28.2	(D)	0.4	1.7
2339	Women's and misses' outerwear, n.e.c. -----	-	56	39	5.8	37.2	4.8	8.4	28.5	75.9	113.5	189.3	2.2	6.7	62.6
234	Women's and children's undergarments -----	-	65	58	11.6	71.3	10.3	18.5	55.6	138.0	111.7	248.4	(D)	12.1	99.0
2341	Women's and children's underwear -----	-	59	53	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2342	Brassieres and allied garments -----	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
236	Children's outerwear -----	-	53	57	7.2	43.4	6.4	11.1	36.0	74.3	49.3	123.2	(D)	FF	(D)
2361	Children's dresses and blouses -----	-	35	34	3.3	20.1	2.9	5.0	15.9	37.5	23.8	61.2	(D)	FF	(D)
2363	Children's coats and suits ---	E4	6	4	0.5	3.6	0.5	0.8	3.0	3.8	1.6	5.5	(Z)	BB	(D)
2369	Children's outerwear, n.e.c. --	-	22	19	3.4	19.7	3.0	5.3	17.1	33.0	23.8	56.6	0.6	2.3	14.4
238	Miscellaneous apparel and accessories -----	E1	32	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	33.7
2381	Fabric dress and work gloves -----	E2	14	13	2.4	13.8	2.2	3.9	12.4	27.2	32.0	59.2	0.2	2.1	15.9
2384	Robes and dressing gowns --	E2	6	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	6.6
2385	Waterproof outer garments --	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2387	Apparel belts -----	-	5	2	0.2	2.2	0.2	0.3	1.0	3.8	3.3	6.9	(D)	BE	(D)
239	Miscellaneous fabricated textile products -----	-	179	79	14.4	105.0	12.7	23.3	84.4	187.4	424.1	596.7	(D)	16.1	168.2
2391	Curtains and draperies -----	-	33	17	4.6	32.1	4.1	7.5	26.5	46.1	95.6	140.0	0.8	5.9	60.9
2392	House furnishings, n.e.c. -----	-	41	24	5.4	40.1	4.8	9.4	33.5	84.1	233.8	305.5	3.2	6.1	69.7
2393	Textile bags -----	-	8	4	0.8	5.6	0.6	1.3	4.2	10.5	13.6	24.8	0.7	0.9	8.3
2394	Canvas and related products -----	E1	18	4	0.3	2.9	0.3	0.5	1.7	5.5	6.6	12.3	(D)	0.6	8.0
2395	Pleating and stitching -----	E1	23	8	0.8	5.3	0.7	0.9	4.0	8.6	10.8	19.5	0.2	0.4	2.1
2396	Automotive and apparel trimmings -----	E3	21	8	0.6	5.4	0.6	1.1	4.4	10.0	12.5	22.5	0.3	0.4	4.2
2399	Fabricated textile products, n.e.c. -----	-	35	14	1.9	13.5	1.6	2.7	10.2	22.7	51.1	72.1	0.6	1.6	15.0
24	Lumber and wood products -----	E1	2 072	369	32.6	277.8	28.3	52.9	211.5	583.8	877.0	1 460.7	90.7	31.8	366.8
2411	Logging camps and logging contractors -----	E4	840	28	3.4	30.8	3.1	4.6	25.4	67.8	98.3	165.2	9.6	3.1	36.0
242	Sawmills and planing mills ---	E1	807	169	12.5	101.3	11.0	21.0	78.2	213.7	327.6	541.5	54.5	11.9	131.2
2421	Sawmills and planing mills, general -----	E1	630	104	8.5	71.8	7.4	14.2	55.6	167.7	274.3	443.0	49.8	7.7	98.5
2426	Hardwood dimension and flooring -----	E1	175	64	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.1	31.6

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expen- ditures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
24	Lumber and wood products—Con.														
243	Millwork, plywood, and structural members -----	-	196	79	7.3	66.0	6.3	12.5	49.9	137.5	196.1	333.7	11.6	7.6	93.3
2431	Millwork -----	E2	56	13	0.9	8.3	0.8	1.5	5.8	17.8	34.3	51.6	0.8	1.1	15.1
2434	Wood kitchen cabinets -----	-	49	7	1.1	11.2	1.0	1.7	7.8	21.7	16.8	39.2	0.4	1.2	15.9
2435	Hardwood veneer and plywood -----	-	62	47	3.7	29.5	3.3	6.6	23.1	51.7	79.6	131.4	3.5	3.8	42.4
2436	Softwood veneer and plywood -----	-	10	7	1.1	12.5	1.0	2.1	10.4	38.7	49.1	87.6	6.4	1.0	16.1
2439	Structural wood members, n.e.c. -----	-	19	5	0.4	4.4	0.3	0.6	2.8	7.7	16.4	24.0	0.5	0.4	3.7
244	Wood containers -----	-	54	20	1.7	11.4	1.5	2.9	9.5	19.9	25.2	44.9	1.5	1.4	10.6
2445	Wood pallets and skids -----	-	27	9	0.6	4.1	0.5	0.9	3.3	7.7	10.8	18.5	0.8	0.5	4.6
2449	Wood containers, n.e.c. -----	-	17	7	0.9	6.3	0.9	1.8	5.4	9.9	12.1	21.8	0.4	0.9	5.6
245	Wood buildings and mobile homes -----	-	47	30	3.0	29.3	2.5	4.7	19.8	53.0	118.5	171.3	6.0	3.7	43.7
2451	Mobile homes -----	-	31	26	2.6	25.0	2.2	4.1	17.4	44.5	104.3	149.0	5.3	3.1	38.0
2452	Prefabricated wood buildings -----	E3	16	4	0.4	4.2	0.3	0.6	2.5	8.5	14.1	22.3	0.7	0.6	5.7
249	Miscellaneous wood products -----	E1	128	43	4.6	39.0	3.8	7.2	28.6	91.9	111.3	204.0	7.5	4.3	52.1
2491	Wood preserving -----	-	16	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	5.5
2492	Particleboard -----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	7.9
2499	Wood products, n.e.c. -----	E1	109	36	4.1	34.1	3.4	6.4	25.0	82.2	91.4	173.8	6.1	3.3	38.6
25	Furniture and fixtures -	-	664	391	78.9	653.1	69.7	133.3	517.5	1 299.5	1 183.7	2 467.3	60.2	70.3	823.7
251	Household furniture -----	-	567	342	71.6	586.4	63.7	121.6	471.2	1 159.9	1 071.0	2 217.5	(D)	63.4	740.1
2511	Wood household furniture -----	-	219	126	41.2	333.6	37.3	74.3	274.9	681.3	533.4	1 208.6	28.2	35.0	409.1
2512	Upholstered household furniture -----	-	286	180	26.6	221.3	23.2	41.5	173.8	418.9	460.7	876.2	20.7	24.0	284.3
2514	Metal household furniture -----	-	20	13	2.2	17.1	2.0	3.7	13.6	36.6	41.4	74.6	1.3	1.7	17.3
2515	Mattresses and bedsprings -----	E2	32	18	1.0	8.6	0.7	1.3	4.8	16.5	22.2	38.7	(D)	1.1	13.6
2519	Household furniture, n.e.c. -----	-	9	4	0.5	4.5	0.3	0.6	3.4	7.7	11.1	18.6	(D)	CC	(D)
252	Office furniture -----	-	24	18	4.1	37.5	3.5	6.8	27.0	83.8	66.2	149.8	(D)	4.0	51.1
2521	Wood office furniture -----	-	18	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2522	Metal office furniture -----	-	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2531	Public building and related furniture -----	E1	19	9	1.2	11.6	1.0	1.9	7.4	22.9	15.3	37.0	(D)	CC	(D)
254	Partitions and fixtures -----	-	38	19	1.7	16.2	1.4	2.6	10.9	30.5	28.7	58.1	(D)	1.8	20.4
2541	Wood partitions and fixtures -----	-	33	15	1.3	12.8	1.1	2.2	9.0	23.4	25.7	48.6	(D)	1.6	17.4
2542	Metal partitions and fixtures -----	-	5	4	0.4	3.4	0.3	0.5	1.9	7.1	3.0	9.5	(D)	0.2	3.0
259	Miscellaneous furniture and fixtures -----	E3	16	3	0.2	1.5	0.2	0.3	1.0	2.4	2.5	5.0	(D)	AA	(D)
2599	Furniture and fixtures, n.e.c. -----	E2	12	3	0.2	1.3	0.1	0.3	0.9	2.1	2.2	4.2	(D)	AA	(D)
26	Paper and allied products -----	-	171	116	19.4	267.0	15.5	31.9	193.1	715.7	926.6	1 621.9	139.1	16.5	319.5
2611	Pulp mills -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2621	Paper mills, except building paper -----	-	6	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2631	Paperboard mills -----	-	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
264	Miscellaneous converted paper products -----	-	62	30	4.1	44.6	3.3	6.8	30.8	201.2	233.3	426.4	7.2	2.3	50.9
2641	Paper coating and glazing -----	-	10	7	0.9	8.4	0.7	1.5	6.5	23.3	25.8	48.3	1.6	BB	(D)
2643	Bags, except textile bags -----	E1	10	7	0.9	10.7	0.7	1.4	6.5	20.5	31.9	50.6	(D)	0.7	8.7
2645	Die-cut paper and board -----	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2647	Sanitary paper products -----	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2649	Converted paper products, n.e.c. -----	-	29	10	0.8	7.5	0.6	1.2	4.4	13.9	20.2	33.7	1.7	0.4	6.3
265	Paperboard containers and boxes -----	-	96	73	6.3	71.9	4.9	9.8	47.5	155.1	240.6	393.8	12.8	6.1	86.8
2651	Folding paperboard boxes -----	-	20	14	1.0	12.9	0.8	1.7	8.6	28.9	36.2	64.3	1.8	0.9	14.3
2652	Setup paperboard boxes -----	-	16	13	0.9	8.2	0.8	1.5	5.8	13.7	13.5	27.0	0.3	1.1	13.8
2653	Corrugated and solid fiber boxes -----	-	34	28	2.9	35.7	2.1	4.1	21.8	75.8	139.7	214.8	8.5	3.2	44.3
2654	Sanitary food containers -----	-	5	5	0.6	6.8	0.5	1.1	5.3	18.0	27.6	45.3	0.6	0.4	7.9
2655	Fiber cans, drums, and similar products -----	-	21	13	0.8	8.5	0.7	1.3	6.0	18.8	23.6	42.5	1.5	0.4	6.5
27	Printing and publishing -----	-	925	174	15.7	166.7	9.5	17.6	90.2	352.2	212.8	572.5	17.2	13.8	205.4
2711	Newspapers -----	-	189	65	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.7	106.3
2721	Periodicals -----	E1	38	5	0.3	4.3	0.1	0.2	1.1	13.0	6.9	19.8	0.2	AA	(D)
273	Books -----	-	29	5	0.9	8.3	0.6	1.1	4.2	19.5	11.8	30.7	1.2	0.8	10.7
2731	Book publishing -----	-	18	1	0.2	2.6	(Z)	(Z)	0.1	8.6	4.0	12.3	(D)	(NA)	(NA)
2732	Book printing -----	-	11	4	0.7	5.8	0.5	1.1	4.1	10.9	7.8	18.4	(D)	0.7	8.4

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
27	Printing and publishing—Con.														
275	Commercial printing -----	E1	545	68	5.1	55.4	4.0	7.2	37.9	113.0	104.6	216.1	7.8	4.3	63.5
2751	Commercial printing, letterpress -----	E3	313	20	1.6	16.7	1.3	2.2	11.1	35.4	30.7	65.6	1.9	2.0	28.4
2752	Commercial printing, lithographic -----	E1	204	38	2.7	29.5	2.0	3.7	19.6	57.2	41.4	98.0	4.2	1.6	25.1
2753	Engraving and plate printing -----	-	11	2	0.2	1.6	0.1	0.3	1.2	2.6	0.9	3.6	(Z)	(NA)	(NA)
2754	Commercial printing, gravure -----	-	17	7	0.6	7.6	0.5	1.1	6.0	17.8	31.6	49.0	1.7	CC	(D)
2761	Manifold business forms -----	E1	27	15	0.9	11.0	0.7	1.4	8.3	22.2	23.2	45.2	1.2	0.8	10.3
278	Blankbooks and bookbinding --	E1	19	9	0.8	6.7	0.7	1.2	4.8	14.2	4.2	18.4	(D)	0.7	5.2
2782	Blankbooks and looseleaf binders -----	E1	9	5	0.4	4.0	0.3	0.7	2.8	10.3	2.9	13.2	(D)	0.3	2.4
2789	Bookbinding and related work -----	-	10	4	0.4	2.7	0.3	0.6	2.0	3.9	1.3	5.2	(D)	0.4	2.9
279	Printing trade services -----	E1	48	4	0.3	4.4	0.3	0.5	3.1	8.8	2.2	11.0	0.3	0.3	5.3
28	Chemicals and allied products -----	-	281	126	33.0	431.5	23.9	46.2	266.4	1 663.7	1 879.5	3 522.7	110.4	27.0	887.0
281	Industrial inorganic chemicals --	-	26	7	0.8	11.5	0.6	1.3	8.6	63.0	65.8	129.9	6.2	0.8	19.1
2819	Industrial inorganic chemicals, n.e.c. -----	-	11	5	0.6	9.2	0.5	1.0	6.9	51.6	55.6	108.3	3.7	0.7	15.6
282	Plastics materials and synthetics -----	-	27	24	16.2	222.1	12.6	24.5	153.8	722.2	888.5	1 609.3	39.2	16.4	452.0
2821	Plastics materials and resins --	-	11	10	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2824	Organic fibers, noncellulosic --	-	13	12	15.7	215.1	12.2	23.8	149.7	692.4	812.7	1 504.1	37.5	16.0	439.4
283	Drugs -----	-	23	12	6.7	69.1	5.4	9.9	49.3	442.0	180.4	606.7	30.4	EE	(D)
2831	Biological products -----	-	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2833	Medicinals and botanicals -----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2834	Pharmaceutical preparations --	-	12	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
284	Soaps, cleaners, and toilet goods -----	-	50	19	1.9	30.1	0.9	1.8	7.9	111.6	101.9	211.5	2.6	2.1	65.9
2842	Polishes and sanitation goods -----	-	17	3	0.2	1.9	0.1	0.2	0.8	15.6	22.5	38.0	0.2	(NA)	(NA)
2843	Surface active agents -----	-	17	9	0.5	7.7	0.2	0.5	2.4	29.2	45.8	74.6	1.5	0.6	17.3
2844	Toilet preparations -----	-	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2851	Paints and allied products -----	-	22	12	1.3	21.6	0.5	1.1	6.0	46.5	91.1	137.0	2.3	1.2	32.1
286	Industrial organic chemicals ---	-	23	13	2.0	29.3	1.2	2.5	14.3	115.9	191.6	298.5	16.3	1.4	74.4
2865	Cyclic crudes and intermediates -----	-	7	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2869	Industrial organic chemicals, n.e.c. -----	-	14	8	0.7	10.7	0.4	0.9	5.1	60.5	62.4	115.6	(D)	CC	(D)
287	Agricultural chemicals -----	-	51	26	2.5	29.0	1.7	3.3	17.8	99.0	276.5	384.3	10.1	2.5	64.7
2873	Nitrogenous fertilizers -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2874	Phosphatic fertilizers -----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	33.1
2875	Fertilizers, mixing only -----	-	32	17	1.0	9.2	0.7	1.4	5.0	31.8	106.5	138.5	3.7	0.8	17.6
2879	Agricultural chemicals, n.e.c. --	-	13	4	0.3	4.0	0.1	0.2	1.3	11.0	35.4	53.7	0.7	BB	(D)
289	Miscellaneous chemical products -----	-	59	13	1.5	18.8	1.0	2.0	8.6	63.4	83.7	145.5	3.5	EE	(D)
2891	Adhesives and sealants -----	-	11	4	0.4	6.0	0.3	0.6	3.0	18.0	36.1	53.8	0.6	AA	(D)
2893	Printing ink -----	-	17	3	0.2	3.0	0.1	0.3	1.5	12.1	16.9	28.4	1.4	(NA)	(NA)
2899	Chemical preparations, n.e.c. -----	-	31	6	0.9	9.8	0.6	1.1	4.1	33.3	30.6	63.3	1.4	0.8	14.6
29	Petroleum and coal products -----	-	28	3	0.3	3.8	0.2	0.5	2.9	15.1	69.8	85.1	1.3	0.2	12.6
295	Paving and roofing materials ---	-	25	2	0.3	3.0	0.2	0.5	2.3	7.7	32.3	40.2	0.9	AA	(D)
2952	Asphalt felts and coatings ---	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	244	128	21.9	234.2	17.5	34.3	169.9	618.1	710.0	1 318.2	55.2	16.0	280.2
3011	Tires and inner tubes -----	-	9	6	5.5	78.2	4.2	8.2	56.7	220.3	233.8	450.1	28.6	2.7	87.8
3021	Rubber and plastics footwear --	-	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3041	Rubber and plastics hose and belting -----	-	6	5	2.4	28.1	1.9	3.8	20.2	89.3	43.3	132.2	3.4	EE	(D)
3069	Fabricated rubber products, n.e.c. -----	-	26	7	0.9	8.0	0.8	1.5	6.3	20.5	22.1	42.4	1.5	1.0	17.3
3079	Miscellaneous plastics products -----	-	201	109	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.9	132.4

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972		
			E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
				Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
31	Leather and leather products -----	-		42	19	4.3	31.5	3.7	6.7	23.1	63.7	76.4	139.9	1.3	3.6	35.4
3111	Leather tanning and finishing --	-		3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.8
314	Footwear, except rubber -----	-		14	11	3.7	25.8	3.2	5.7	19.3	51.1	55.2	106.2	(D)	3.0	27.3
3142	House slippers -----	-		1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3143	Men's footwear, except athletic -----	-		8	8	2.6	19.1	2.3	4.3	14.5	33.9	42.5	76.7	0.7	1.9	13.3
3149	Footwear, except rubber, n.e.c. -----	-		2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
317	Handbags and other personal leather goods -----	E1		12	3	0.3	2.2	0.3	0.5	1.6	4.2	5.1	9.3	(D)	AA	(D)
3171	Women's handbags and purses -----	E1		11	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3199	Leather goods, n.e.c. -----	E1		10	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.5
32	Stone, clay, and glass products -----	-		448	146	15.8	170.6	12.6	25.8	121.7	436.1	380.0	816.3	41.4	15.0	254.0
3211	Flat glass -----	-		1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
322	Glass and glassware, pressed or blown -----	-		8	7	4.2	52.6	3.6	7.3	43.2	157.5	89.3	247.9	15.7	3.4	75.1
3221	Glass containers -----	-		4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3229	Pressed and blown glass, n.e.c. -----	-		4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3231	Products of purchased glass ---	-		19	8	1.4	13.5	1.2	2.4	8.5	34.7	43.3	77.6	3.1	1.3	24.4
3241	Cement, hydraulic -----	-		3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
325	Structural clay products -----	-		32	28	2.3	22.2	1.9	3.9	15.1	49.8	38.7	90.5	7.5	2.8	36.7
3251	Brick and structural clay tile -	-		27	25	1.9	17.9	1.5	3.1	11.5	41.8	30.0	73.4	6.9	EE	(D)
3253	Ceramic wall and floor tile ---	-		3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3259	Structural clay products, n.e.c. -----	-		2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
326	Pottery and related products ---	-		18	2	0.2	2.0	0.2	0.3	1.1	3.6	2.4	6.1	(Z)	(NA)	(NA)
327	Concrete, gypsum, and plaster products -----	-		292	79	4.5	43.8	3.1	6.2	26.9	92.5	125.1	216.9	9.2	4.9	79.6
3271	Concrete block and brick -----	-		44	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3272	Concrete products, n.e.c. -----	E1		114	24	1.6	16.3	1.2	2.3	10.0	29.3	22.9	52.0	1.9	1.7	24.4
3273	Ready-mixed concrete -----	-		133	41	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	42.1
3281	Cut stone and stone products -	E1		32	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	5.4
329	Miscellaneous nonmetallic mineral products -----	-		43	13	2.1	21.8	1.7	3.5	15.2	58.0	48.1	104.3	4.9	1.7	23.4
3292	Asbestos products -----	-		6	4	0.9	8.2	0.8	1.5	6.9	28.2	18.3	46.0	1.2	CC	(D)
3293	Gaskets, packing, and sealing devices -----	-		6	4	0.8	8.0	0.6	1.2	4.7	19.4	11.8	29.9	(D)	BB	(D)
3295	Minerals, ground or treated --	-		16	3	0.2	2.4	0.2	0.3	1.8	4.1	8.4	12.5	1.3	(NA)	(NA)
33	Primary metal industries -----	-		87	45	5.9	72.8	4.6	9.4	50.7	277.8	285.7	558.5	22.1	6.4	127.0
331	Blast furnace and basic steel products -----	-		14	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	11.0
3312	Blast furnaces and steel mills -----	-		9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
332	Iron and steel foundries -----	-		17	10	1.2	11.4	1.0	2.0	8.9	22.2	19.9	43.1	2.2	1.4	21.1
3321	Gray iron foundries -----	-		17	10	1.2	11.4	1.0	2.0	8.9	22.2	19.9	43.1	2.2	1.4	21.1
333	Primary nonferrous metals -----	-		2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3334	Primary aluminum -----	-		1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
335	Nonferrous rolling and drawing -	-		21	18	3.0	36.9	2.2	4.6	23.0	114.6	150.5	265.7	15.9	3.5	73.3
3353	Aluminum sheet, plate, and foil -----	-		2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3354	Aluminum extruded products -	-		3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3356	Nonferrous rolling and drawing, n.e.c. -----	-		2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3357	Nonferrous wire drawing and insulating -----	-		13	11	1.5	15.7	1.1	2.2	10.6	58.8	58.6	117.3	3.1	EE	(D)
336	Nonferrous foundries -----	-		16	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3361	Aluminum foundries -----	-		13	7	0.5	5.5	0.4	0.8	4.3	10.3	10.3	20.7	2.7	AA	(D)
34	Fabricated metal products -----	-		469	192	26.3	301.6	19.5	38.5	192.6	927.8	873.8	1 794.9	35.3	17.0	292.7
341	Metal cans and shipping containers -----	-		9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3411	Metal cans -----	-		5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
342	Cutlery, hand tools, and hardware -----	-		40	21	3.3	32.6	2.7	5.4	23.2	70.2	50.5	116.8	4.0	2.2	35.0
3421	Cutlery -----	-		1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3423	Hand and edge tools, n.e.c. -	E1		7	3	0.2	1.9	0.2	0.3	1.3	3.9	3.2	7.0	(D)	(NA)	(NA)
3425	Hand saws and saw blades -	-		7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3428	Hardware, n.e.c. -----	-		25	13	2.3	22.7	1.9	3.7	15.5	50.4	37.4	84.4	2.8	1.7	29.0

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
34	Fabricated metal products—Con.														
343	Plumbing and heating, except electric	-	26	9	1.5	13.6	1.2	2.2	9.1	34.0	48.4	81.3	1.7	0.9	15.1
3432	Plumbing fittings and brass goods	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3433	Heating equipment, except electric	-	21	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
344	Fabricated structural metal products	-	208	89	11.2	137.3	8.1	16.3	81.9	562.4	470.3	1 036.2	(D)	7.6	124.9
3441	Fabricated structural metal	-	43	24	2.3	27.4	1.6	3.2	15.7	46.3	84.9	132.0	4.1	2.9	51.6
3442	Metal doors, sash, and trim	-	22	11	1.3	12.5	1.0	2.1	7.9	28.6	41.8	69.9	0.9	0.7	10.5
3443	Fabricated plate work (boiler shops)	-	25	12	3.8	57.1	2.7	5.5	34.2	400.3	207.3	612.1	7.0	1.6	29.7
3444	Sheet metal work	E1	72	24	2.3	25.2	1.6	3.3	14.5	53.0	59.0	111.3	1.5	1.8	23.5
3446	Architectural metal work	E1	21	4	0.4	2.7	0.3	0.6	1.8	5.1	3.6	8.5	0.4	AA	(D)
3448	Prefabricated metal buildings	-	16	9	0.9	9.9	0.7	1.4	6.7	22.9	45.9	69.2	1.1	(NA)	(NA)
3449	Miscellaneous metal work	E2	9	5	0.2	2.6	0.1	0.2	1.1	6.2	27.7	33.3	(D)	BB	(D)
345	Screw machine products, bolts, etc.	-	11	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3452	Bolts, nuts, rivets, and washers	-	5	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
346	Metal forgings and stampings	E1	28	12	0.8	9.0	0.6	1.1	5.6	21.4	20.7	41.9	1.2	BB	(D)
3465	Automotive stampings	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3469	Metal stampings, n.e.c.	E2	25	10	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
347	Metal services, n.e.c.	E3	63	17	1.4	14.1	1.2	2.3	9.5	26.2	14.0	40.0	2.7	1.0	12.3
3471	Plating and polishing	E4	45	10	1.0	9.4	0.8	1.5	6.2	17.7	7.8	25.5	0.7	CC	(D)
3479	Metal coating and allied services	E2	18	7	0.4	4.7	0.4	0.7	3.3	8.5	6.3	14.5	2.0	BB	(D)
349	Miscellaneous fabricated metal products	-	82	38	6.8	74.1	4.6	8.9	48.1	166.9	194.2	354.2	8.4	3.4	53.0
3494	Valves and pipe fittings	-	12	10	1.9	21.7	1.3	2.7	12.2	53.1	33.5	83.8	3.2	1.1	21.0
3495	Wire springs	-	12	10	1.0	10.0	0.8	1.5	5.8	15.7	19.2	34.9	0.8	1.3	13.7
3496	Miscellaneous fabricated wire products	-	10	6	0.6	6.2	0.5	0.9	3.8	23.6	21.0	44.2	0.8	AA	(D)
3497	Metal foil and leaf	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3498	Fabricated pipe and fittings	-	6	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	5.5
3499	Fabricated metal products, n.e.c.	-	37	8	0.6	6.6	0.5	1.0	4.3	11.1	11.1	21.9	0.6	0.4	5.5
35	Machinery, except electrical	-	841	208	33.0	425.9	21.1	40.7	209.1	958.3	1 078.3	1 973.7	87.4	30.7	729.1
351	Engines and turbines	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3511	Turbines and turbine generator sets	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
352	Farm and garden machinery	-	47	14	3.4	35.3	2.5	4.7	21.6	104.3	91.2	194.9	3.7	2.2	26.9
3523	Farm machinery and equipment	-	43	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3524	Lawn and garden equipment	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
353	Construction and related machinery	-	34	15	1.7	20.6	1.1	2.1	11.3	54.8	57.7	113.6	(D)	EE	(D)
3531	Construction machinery	-	12	6	0.6	7.7	0.4	0.7	3.4	11.9	16.3	30.2	(D)	0.2	3.8
3535	Conveyors and conveying equipment	-	5	3	0.2	3.0	0.1	0.3	1.7	6.2	5.3	11.3	0.1	(NA)	(NA)
3536	Hoists, cranes, and monorails	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3537	Industrial trucks and tractors	-	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	4.0
354	Metalworking machinery	-	76	20	3.5	39.5	2.5	4.5	22.2	125.8	89.2	212.3	4.7	3.2	65.2
3542	Machine tools, metal forming types	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3544	Special dies, tools, jigs, and fixtures	E2	43	12	0.6	8.0	0.5	0.9	6.1	13.2	4.7	17.7	0.7	0.8	12.6
3545	Machine tool accessories	E1	12	2	0.3	3.4	0.3	0.4	2.6	3.8	4.8	8.1	(D)	BB	(D)
3546	Power driven hand tools	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
355	Special industry machinery	-	210	78	7.4	81.7	5.2	10.4	48.7	149.6	125.1	280.1	9.4	10.7	405.9
3551	Food products machinery	-	7	5	0.3	3.7	0.2	0.3	1.7	6.5	5.2	11.8	0.3	0.4	5.2
3552	Textile machinery	-	153	58	5.8	61.3	4.0	8.0	36.8	113.3	95.5	215.5	5.8	6.4	109.1
3553	Woodworking machinery	E1	15	6	0.6	6.2	0.5	1.0	4.2	8.5	11.1	19.6	1.2	EE	(D)
3559	Special industry machinery, n.e.c.	-	26	7	0.6	8.0	0.4	0.9	5.0	16.5	9.9	25.9	1.0	EE	(D)
356	General industrial machinery	-	71	30	4.6	53.2	3.2	6.4	28.5	120.5	110.5	232.0	6.3	2.3	35.1
3562	Ball and roller bearings	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3563	Air and gas compressors	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3564	Blowers and fans	-	16	7	1.1	10.3	0.8	1.7	6.4	21.1	17.0	37.6	0.9	0.4	6.5
3566	Speed changers, drives, and gears	E1	7	4	0.3	4.1	0.2	0.5	2.5	6.9	4.0	10.9	0.5	0.3	3.9
3569	General industrial machinery, n.e.c.	-	29	10	1.9	22.1	1.2	2.4	10.5	38.6	38.9	78.1	3.3	0.8	13.4
357	Office and computing machines	-	14	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3573	Electronic computing equipment	-	13	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3579	Office machines, n.e.c. and typewriters	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
35	Machinery, except electrical—Con.														
358	Refrigeration and service machinery -----	-	25	10	1.9	24.8	1.1	2.1	12.8	47.5	42.9	90.7	1.3	2.5	37.0
3585	Refrigeration and heating equipment -----	-	8	5	0.4	6.4	0.3	0.5	3.7	12.3	14.1	25.9	(D)	1.1	12.7
3586	Measuring and dispensing pumps -----	-	3	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3589	Service industry machinery, n.e.c. -----	-	13	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
359	Miscellaneous machinery, except electrical -----	E2	361	32	2.9	32.3	2.4	4.5	23.3	56.6	32.7	89.3	4.9	2.5	35.7
3592	Carburetors, pistons, rings, and valves -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3599	Machinery, except electrical, n.e.c. -----	E3	359	30	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
36	Electric and electronic equipment -	-	200	98	40.1	442.1	31.2	61.1	293.3	1 351.3	1 055.3	2 366.2	55.1	35.4	687.6
361	Electric distributing equipment -	-	31	13	4.3	46.1	3.3	6.6	29.9	137.2	123.2	255.8	8.9	3.4	57.8
3612	Transformers -----	-	9	6	2.1	27.7	1.6	3.3	17.6	70.5	57.1	124.4	4.0	EE	(D)
3613	Switchgear and switchboard apparatus -----	-	22	7	2.2	18.4	1.8	3.4	12.3	66.8	66.1	131.4	4.9	EE	(D)
362	Electrical industrial apparatus -	-	25	15	6.4	69.2	4.7	9.3	43.0	212.0	131.1	340.9	9.7	4.6	87.9
3621	Motors and generators -----	-	6	6	1.7	15.4	1.2	2.7	9.8	32.5	25.4	56.9	1.9	1.9	31.5
3622	Industrial controls -----	-	14	6	3.4	39.4	2.5	4.6	24.2	133.1	63.2	195.7	(D)	1.6	39.4
3624	Carbon and graphite products -----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3629	Electrical industrial apparatus, n.e.c. -----	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
363	Household appliances -----	-	12	8	5.3	45.8	4.7	8.8	35.9	177.7	139.1	314.7	2.7	4.6	89.9
3634	Electric housewares and fans -----	-	9	7	5.2	44.9	4.6	8.7	35.5	175.7	136.2	309.8	(D)	FF	(D)
364	Electric lighting and wiring equipment -----	-	28	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.7	81.8
3643	Current-carrying wiring devices -----	-	11	7	2.1	18.8	1.8	3.4	13.9	38.7	21.5	61.0	1.7	2.7	35.0
3645	Residential lighting fixtures -	-	12	2	0.5	3.9	0.3	0.7	2.2	6.1	8.1	14.4	(D)	BB	(D)
3646	Commercial lighting fixtures -	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3648	Lighting equipment, n.e.c. -----	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
365	Radio and TV receiving equipment -----	-	7	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3651	Radio and TV receiving sets -	-	3	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
366	Communication equipment -----	-	33	14	9.2	125.5	6.1	11.6	71.1	324.3	272.4	578.5	12.3	FF	(D)
3661	Telephone and telegraph apparatus -----	-	6	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3662	Radio and TV communication equipment -	-	27	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
367	Electronic components and accessories -----	-	40	21	5.1	49.2	4.4	8.4	36.3	149.6	74.6	217.3	4.9	FF	(D)
3675	Electronic capacitors -----	-	4	4	1.8	15.7	1.6	3.0	12.8	38.9	22.0	60.0	1.9	1.6	22.7
3676	Electronic resistors -----	-	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	26.8
3678	Electronic connectors -----	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3679	Electronic components, n.e.c. -----	-	22	6	0.6	4.9	0.6	1.0	3.3	11.2	14.8	21.9	(D)	CC	(D)
369	Miscellaneous electrical equipment and supplies -----	-	24	14	4.0	46.7	3.4	7.2	35.8	153.0	114.9	264.8	12.7	2.8	82.9
3691	Storage batteries -----	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3692	Primary batteries, dry and wet -----	-	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3699	Electrical equipment and supplies, n.e.c. -----	-	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
37	Transportation equipment -----	-	177	53	11.3	118.9	9.2	18.4	86.8	312.9	317.4	617.1	16.4	8.7	188.7
371	Motor vehicles and equipment -	-	78	29	8.4	88.6	6.8	13.6	66.1	252.0	255.6	497.1	(D)	6.1	152.6
3713	Truck and bus bodies -----	-	27	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3714	Motor vehicle parts and accessories -----	-	40	18	6.4	86.9	5.1	10.3	50.7	204.7	173.1	367.9	12.8	3.9	89.3
3715	Truck trailers -----	-	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
372	Aircraft and parts -----	-	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3728	Aircraft equipment, n.e.c. -----	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
373	Ship and boat building and repairing -----	-	61	11	2.1	20.0	1.7	3.4	14.3	41.1	40.1	80.7	(D)	2.0	27.1
3731	Ship building and repairing -	-	9	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3732	Boat building and repairing -	E1	52	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
379	Miscellaneous transportation equipment -----	-	24	8	0.4	4.1	0.3	0.6	2.4	6.3	12.1	18.9	(D)	0.4	4.9
3799	Transportation equipment, n.e.c. -----	-	12	7	0.4	3.6	0.3	0.5	2.0	5.2	10.5	16.1	(D)	AA	(D)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital ex- pend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
38	Instruments and related products -----	-	78	27	8.4	101.6	6.0	12.1	60.1	276.4	181.1	444.9	10.8	8.5	149.8
3811	Engineering and scientific instruments -----	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
382	Measuring and controlling devices -----	-	17	8	2.8	33.2	1.7	3.6	17.1	75.4	29.5	103.4	2.5	3.2	56.0
3824	Fluid meters and counting devices -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3825	Instruments to measure electricity -----	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3829	Measuring and controlling devices, n.e.c. -----	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
384	Medical instruments and supplies -----	-	30	10	2.2	26.6	1.8	3.6	17.6	58.7	38.2	87.5	3.1	2.7	24.6
3841	Surgical and medical instruments -----	-	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3842	Surgical appliances and supplies -----	-	22	6	0.6	4.7	0.5	1.0	3.2	11.9	9.1	19.0	0.1	EE	(D)
3843	Dental equipment and supplies -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3861	Photographic equipment and supplies -----	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3873	Watches, clocks, and watchcases -----	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
39	Miscellaneous manufacturing industries -----	-	234	49	7.6	67.7	6.1	12.0	45.1	157.2	132.6	278.6	9.7	5.3	101.9
3931	Musical instruments -----	-	10	4	0.8	6.3	0.7	1.3	4.5	13.3	14.6	26.8	0.3	CC	(D)
394	Toys and sporting goods -----	-	35	5	1.3	10.7	1.0	2.0	7.1	33.2	25.5	57.7	(D)	1.4	19.3
3944	Games, toys, and children's vehicles -----	-	8	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
395	Pens, pencils, office and art supplies -----	-	16	4	0.4	3.5	0.3	0.6	2.1	8.4	9.7	18.0	(D)	0.4	5.7
3951	Pens and mechanical pencils -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
396	Costume jewelry and notions --	-	17	9	1.2	9.6	1.0	2.0	7.3	19.7	26.6	45.6	(D)	CC	(D)
3964	Needles, pins, and fasteners -----	-	9	6	1.1	8.7	0.9	1.8	6.7	17.8	24.9	42.1	(D)	CC	(D)
399	Miscellaneous manufactures ---	-	144	27	3.9	37.3	3.1	6.2	23.8	81.9	55.2	128.8	(D)	2.9	51.7
3991	Brooms and brushes -----	-	18	2	0.4	3.5	0.3	0.7	2.5	9.4	7.2	15.7	(D)	0.3	5.4
3993	Signs and advertising displays -----	E2	63	5	0.6	5.4	0.4	0.8	3.2	9.4	6.5	15.8	0.3	0.5	6.4
3995	Burial caskets -----	-	14	5	0.3	2.6	0.3	0.6	1.9	3.9	7.3	11.1	0.2	0.3	3.4
3999	Manufacturing industries, n.e.c. -----	-	49	13	2.6	25.8	2.0	4.1	16.1	59.2	34.2	86.2	2.9	1.8	36.5
--	Administrative and auxiliary -----	-	217	136	25.9	476.0	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
	Asheville SMSA -----	-	248	117	19.8	193.3	14.4	27.6	116.9	425.3	389.2	789.2	27.0	21.8	311.6
25	Furniture and fixtures -----	-	9	6	0.5	4.5	0.4	0.7	3.3	9.3	12.0	21.2	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	22	10	0.7	7.0	0.5	1.0	4.4	14.9	17.7	33.0	0.7	0.5	6.2
344	Fabricated structural metal products -----	-	6	4	0.3	3.4	0.2	0.5	2.0	5.4	7.7	13.0	0.2	0.3	3.5
	Burlington SMSA -----	-	255	124	20.1	186.8	16.8	32.8	134.4	382.3	584.5	961.7	19.6	24.3	294.3
22	Textile mill products -----	-	120	76	14.7	124.7	13.2	25.8	101.9	255.5	478.8	734.6	14.7	18.5	212.7
225	Knitting mills -----	-	82	50	6.8	53.1	6.1	11.4	41.6	113.9	171.9	286.6	5.2	10.0	99.3
2251	Women's hosiery, except socks -----	-	19	12	1.6	11.9	1.3	2.5	8.4	27.9	46.9	74.9	(D)	5.0	44.0
2252	Hosiery, n.e.c. -----	-	35	23	2.9	21.1	2.7	5.1	18.1	49.6	55.8	106.2	1.1	2.3	25.1
2258	Warp knit fabric mills ---	-	10	8	1.2	10.1	1.0	1.8	7.2	17.5	33.2	51.2	0.7	1.2	12.2
226	Textile finishing, except wool -----	-	5	5	1.4	14.1	1.2	2.5	11.2	33.3	124.5	158.3	(D)	1.5	34.2
228	Yarn and thread mills -----	-	16	11	3.1	27.4	2.8	5.6	22.9	59.7	104.0	163.1	4.9	3.7	47.9
2281	Yarn mills, except wool ---	-	7	5	1.3	10.4	1.2	2.3	8.9	27.2	24.4	51.6	(D)	0.9	7.4
23	Apparel and other textile products -----	E1	15	8	0.4	2.7	0.3	0.6	1.7	6.2	4.6	10.7	0.1	(NA)	(NA)
25	Furniture and fixtures -----	-	3	3	0.6	5.0	0.5	1.0	3.6	8.4	6.1	14.9	(D)	0.7	8.5
251	Household furniture -----	-	3	3	0.6	5.0	0.5	1.0	3.6	8.4	6.1	14.9	(D)	0.7	8.5
27	Printing and publishing -----	-	17	5	0.3	3.3	0.2	0.4	1.9	12.9	4.4	17.2	0.3	(NA)	(NA)
35	Machinery, except electrical -	-	22	5	0.4	4.0	0.3	0.6	2.7	6.4	6.9	13.7	0.4	(NA)	(NA)
	Charlotte-Gastonia SMSA ---	-	1 401	548	87.1	894.7	64.2	126.2	547.8	1 885.1	2 592.6	4 460.9	108.5	88.4	1 239.3
20	Food and kindred products --	-	85	33	8.5	87.1	4.6	9.0	38.9	205.8	394.3	603.0	15.2	8.3	123.2
201	Meat products -----	-	13	3	1.4	9.8	1.2	2.1	8.0	10.4	80.3	94.2	(D)	1.0	11.8
2016	Poultry dressing plants --	-	5	3	1.4	9.5	1.2	2.1	7.7	10.1	78.7	92.4	(D)	1.0	10.9
205	Bakery products -----	-	12	11	5.5	60.1	2.4	4.8	21.1	133.3	88.5	221.5	(D)	4.9	71.7
208	Beverages -----	-	8	5	0.4	4.4	0.2	0.5	2.0	14.2	39.1	53.0	(D)	0.8	10.1
22	Textile mill products -----	-	170	117	29.8	245.7	26.8	53.4	208.3	475.0	880.3	1 360.1	26.0	35.1	382.3
2221	Weaving mills, manmade fiber and silk -----	-	5	5	2.5	23.6	2.2	4.3	18.9	50.1	85.1	140.4	(D)	3.8	47.1
225	Knitting mills -----	E3	56	32	5.5	43.5	4.9	9.1	35.1	73.7	176.2	248.9	6.9	6.1	65.8
2253	Knit outerwear mills -----	-	8	4	0.7	5.2	0.7	1.3	4.2	10.0	9.3	19.0	(D)	1.0	10.8
2257	Circular knit fabric mills ---	-	30	19	3.0	25.3	2.6	4.7	19.7	45.9	132.4	178.7	3.9	2.9	40.0
228	Yarn and thread mills -----	-	63	58	18.5	149.4	17.0	34.8	129.9	289.5	475.4	762.8	14.1	20.1	202.0
2281	Yarn mills, except wool ---	-	52	48	15.9	128.3	14.8	30.8	114.9	235.8	381.3	618.2	13.1	16.9	162.1
229	Miscellaneous textile goods -----	-	24	10	1.9	18.8	1.7	3.1	15.7	44.5	108.3	155.1	1.6	(NA)	(NA)
23	Apparel and other textile products -----	-	71	41	5.4	36.2	4.8	8.9	27.6	58.5	77.6	136.1	2.0	5.0	39.6
2391	Curtains and draperies --	-	8	2	0.6	4.4	0.6	1.1	3.6	3.8	1.7	5.5	(D)	0.6	3.1
2392	House furnishings, n.e.c. -----	-	6	5	0.8	5.5	0.7	1.4	3.7	13.2	23.7	36.7	0.6	(NA)	(NA)
2396	Automotive and apparel trimmings -----	E2	10	5	0.3	3.6	0.3	0.6	2.9	6.9	9.3	16.1	0.2	0.4	3.3
24	Lumber and wood products --	E2	63	17	1.5	12.4	1.2	2.1	9.4	34.4	55.6	89.8	1.3	1.8	17.8
25	Furniture and fixtures -----	E1	33	12	1.1	9.6	0.9	1.7	7.2	15.7	15.1	30.5	(D)	1.0	11.2
251	Household furniture -----	E1	18	7	0.7	5.4	0.5	1.0	4.2	9.0	9.8	18.7	(D)	0.5	6.0
2512	Upholstered household furniture -----	-	4	4	0.4	4.2	0.4	0.7	3.4	7.0	7.4	14.2	(D)	(NA)	(NA)
273	Books -----	-	7	3	0.5	4.9	0.3	0.6	2.0	11.9	6.8	18.4	(D)	0.5	6.7
2761	Manifold business forms -----	-	7	5	0.3	4.9	0.3	0.6	4.0	10.8	12.0	22.6	0.8	0.4	5.3
28	Chemicals and allied products -----	-	79	32	3.7	46.6	2.3	4.7	23.4	185.8	260.1	442.4	14.8	3.1	95.6
281	Industrial inorganic chemicals -----	-	7	1	0.3	4.4	0.3	0.6	4.1	23.4	22.6	45.8	2.1	(NA)	(NA)
282	Plastics materials and synthetics -----	-	6	6	0.3	4.0	0.2	0.5	2.7	22.9	39.1	61.6	(D)	0.4	8.2
284	Soaps, cleaners, and toilet goods -----	-	19	7	0.4	4.8	0.2	0.4	1.8	29.5	47.8	76.9	0.7	0.4	15.8
286	Industrial organic chemicals -----	-	8	5	1.0	13.7	0.6	1.3	6.7	48.2	47.8	89.7	(D)	0.8	36.4
289	Miscellaneous chemical products -----	-	28	8	1.2	14.6	0.8	1.6	6.5	49.0	57.5	104.9	2.5	0.9	23.6
2891	Adhesives and sealants -	-	6	2	0.3	4.8	0.2	0.5	2.4	12.4	21.9	34.1	(D)	(NA)	(NA)
2899	Chemical preparations, n.e.c. -----	-	12	4	0.8	7.8	0.5	1.0	3.2	27.3	23.6	50.0	0.9	0.6	11.9
30	Rubber and miscellaneous plastics products -----	-	46	23	3.8	41.7	3.0	5.8	28.7	122.1	187.5	308.0	7.5	2.6	61.9
34	Fabricated metal products ---	-	125	40	3.5	41.3	2.7	5.3	25.7	88.1	102.2	187.3	4.3	3.5	57.7
344	Fabricated structural metal products -----	-	56	20	1.3	15.2	0.9	1.9	9.1	32.6	61.4	92.7	1.1	1.5	22.1
3441	Fabricated structural metal -----	-	15	6	0.5	5.4	0.4	0.7	3.2	9.7	17.4	27.1	0.2	0.6	8.4
3444	Sheet metal work -----	-	23	7	0.3	3.6	0.2	0.4	2.3	8.1	12.6	19.7	(D)	0.4	4.6
347	Metal services, n.e.c. -----	E2	24	4	0.4	4.3	0.3	0.6	2.6	8.6	3.5	12.1	(D)	0.3	4.8
349	Miscellaneous fabricated metal products -----	-	23	7	1.0	12.0	0.8	1.5	8.1	23.6	19.2	41.1	1.7	0.8	13.6
3499	Fabricated metal products, n.e.c. -----	-	14	3	0.3	3.4	0.3	0.4	2.1	6.4	4.4	10.6	0.4	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Charlotte-Gastonia SMSA—Con.														
35	Machinery, except electrical	-	273	74	10.0	119.7	6.5	12.4	64.0	313.1	231.6	536.6	13.1	9.3	184.5
355	Special industry machinery	-	103	40	3.9	43.7	2.5	5.0	23.8	78.5	69.4	151.2	4.7	5.4	112.0
3552	Textile machinery	-	92	34	3.6	39.8	2.3	4.5	21.4	70.8	62.7	137.0	4.1	4.0	79.1
356	General industrial machinery	-	28	12	2.1	26.1	1.4	2.7	12.4	58.6	44.9	97.8	2.9	0.5	6.6
3569	General industrial machinery, n.e.c.	-	10	4	1.4	16.9	0.9	1.8	7.7	27.0	30.1	58.0	2.1	(NA)	(NA)
37	Transportation equipment	-	23	11	2.9	33.2	2.4	4.9	25.3	78.4	91.1	167.7	(D)	2.8	73.4
371	Motor vehicles and equipment	-	16	8	2.7	30.4	2.2	4.6	24.1	73.0	85.0	156.2	(D)	(NA)	(NA)
38	Instruments and related products	-	18	7	1.5	19.1	1.2	2.3	12.4	33.0	30.7	61.9	1.8	0.8	14.0
39	Miscellaneous manufacturing industries	-	41	6	0.9	7.2	0.7	1.4	4.7	15.7	15.9	31.5	1.6	0.7	14.0
--	Administrative and auxiliary	-	62	37	4.6	77.3	-	-	-	-	-	-	-	(NA)	(NA)
	Fayetteville SMSA	-	141	53	9.9	103.3	7.8	15.5	73.9	250.9	541.9	795.1	33.1	10.5	195.1
23	Apparel and other textile products	E1	13	7	0.9	5.0	0.8	1.4	4.3	4.7	6.0	11.2	0.1	0.9	4.6
27	Printing and publishing	-	13	1	0.4	3.8	0.2	0.3	1.6	6.9	3.6	10.5	(D)	(NA)	(NA)
34	Fabricated metal products	-	3	3	0.5	3.5	0.4	0.9	2.6	12.8	15.9	29.0	0.3	(NA)	(NA)
344	Fabricated structural metal products	-	3	3	0.5	3.5	0.4	0.9	2.6	12.8	15.9	29.0	0.3	(NA)	(NA)
	Greensboro—Winston-Salem—High Point SMSA	-	1 741	729	144.2	1 624.5	105.9	206.2	975.3	4 285.3	4 291.1	8 532.2	221.5	138.0	2 593.4
201	Meat products	-	20	6	0.8	7.0	0.6	1.0	4.1	10.9	52.4	63.5	(D)	0.8	10.3
2013	Sausages and other prepared meats	-	9	2	0.3	2.5	0.2	0.2	1.2	3.6	22.9	26.7	(D)	(NA)	(NA)
204	Grain mill products	-	17	4	0.4	4.4	0.2	0.4	2.1	11.3	34.7	46.2	(D)	0.3	9.4
205	Bakery products	-	19	11	1.6	14.8	1.0	2.0	8.4	31.1	22.2	53.3	(D)	1.4	18.7
208	Beverages	E1	9	8	1.5	23.5	0.8	1.4	11.8	125.9	148.0	274.1	(D)	1.6	83.7
209	Miscellaneous foods and kindred products	-	11	4	0.4	4.0	0.3	0.5	3.2	6.7	9.3	16.0	(D)	(NA)	(NA)
225	Knitting mills	-	116	79	16.6	138.5	14.4	27.9	108.3	321.7	385.5	699.3	18.3	19.2	187.3
2251	Women's hosiery, except socks	-	31	26	6.2	47.8	5.4	9.8	38.4	111.7	66.7	175.8	4.9	8.4	70.8
2252	Hosiery, n.e.c.	-	49	31	4.9	34.7	4.5	8.4	29.4	69.9	91.4	162.2	(D)	5.3	50.5
2257	Circular knit fabric mills	-	19	13	3.3	31.0	2.9	6.0	25.1	74.6	126.0	195.8	9.2	2.3	29.9
226	Textile finishing, except wool	-	14	9	2.1	21.3	1.5	3.2	14.3	34.0	42.9	77.5	2.4	3.4	40.0
2262	Finishing plants, synthetics	-	8	6	1.9	19.2	1.3	2.8	13.0	29.2	33.8	63.2	(D)	(NA)	(NA)
228	Yarn and thread mills	-	21	16	4.3	37.7	3.9	8.2	31.2	85.0	187.5	270.0	6.4	5.9	65.8
2282	Throwing and winding mills	-	10	7	2.2	20.0	2.0	4.4	15.3	49.1	132.4	178.2	3.3	3.2	42.3
254	Partitions and fixtures	-	9	4	0.4	3.1	0.3	0.5	2.1	6.3	7.0	13.2	(D)	0.4	4.5
27	Printing and publishing	E1	185	37	3.9	42.2	2.6	4.8	24.8	86.0	41.4	127.2	(D)	3.2	47.1
2711	Newspapers	-	20	7	1.4	16.8	0.7	1.3	8.5	34.1	11.4	45.5	(D)	1.3	22.1
275	Commercial printing	E1	124	17	1.1	12.7	0.8	1.4	7.9	24.0	16.6	40.5	(D)	1.0	14.9
278	Blankbooks and bookbinding	E1	9	6	0.6	5.7	0.6	1.0	4.1	12.4	3.5	15.9	(D)	0.5	3.6
284	Soaps, cleaners, and toilet goods	E1	11	7	0.4	5.6	0.2	0.4	1.8	16.6	22.2	38.6	1.0	(NA)	(NA)
2851	Paints and allied products	-	7	6	0.9	15.7	0.4	0.8	4.5	33.6	71.3	104.6	1.8	0.8	22.4
3442	Metal doors, sash, and trim	-	8	5	0.6	5.1	0.4	0.8	2.9	10.1	15.9	25.8	(D)	0.4	4.7
3444	Sheet metal work	E2	10	5	1.1	13.6	0.7	1.5	7.1	17.7	20.3	38.1	0.7	0.4	4.1
347	Metal services, n.e.c.	E7	18	5	0.6	5.4	0.5	0.9	3.8	10.1	4.6	14.7	0.6	0.5	5.5
349	Miscellaneous fabricated metal products	-	25	14	3.3	34.6	2.0	3.8	24.3	72.7	114.0	183.1	2.6	1.4	18.6
354	Metalworking machinery	E1	24	3	0.3	4.5	0.2	0.5	2.9	8.9	6.9	15.8	1.1	(NA)	(NA)
358	Refrigeration and service machinery	-	8	5	1.3	16.9	0.9	1.6	8.7	31.9	25.2	58.2	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	50	9	0.5	5.6	0.4	0.8	3.8	8.9	6.4	15.2	0.7	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.	E1	50	9	0.5	5.6	0.4	0.8	3.8	8.9	6.4	15.2	0.7	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies	-	10	6	2.7	31.7	2.3	5.1	24.6	106.5	83.6	188.3	8.9	(NA)	(NA)
--	Administrative and auxiliary	-	62	48	12.9	257.8	-	-	-	-	-	-	-	(NA)	(NA)
	Norfolk-Virginia Beach-Portsmouth, Va.-N.C., SMSA	-	537	190	26.7	326.2	19.4	38.9	211.3	1 083.3	1 850.2	2 950.9	50.1	27.6	551.7
20	Food and kindred products	-	76	50	5.5	54.0	3.7	7.3	32.5	375.5	521.1	900.1	15.9	5.8	174.7
202	Dairy products	-	8	7	0.4	4.1	0.2	0.4	1.6	12.8	32.8	45.5	0.5	0.5	9.4
205	Bakery products	-	9	8	0.8	8.2	0.4	0.7	3.2	19.6	15.0	34.5	1.5	1.5	30.5
208	Beverages	-	9	7	0.6	5.8	0.2	0.5	2.4	19.3	21.8	40.8	1.0	0.5	9.2
209	Miscellaneous foods and kindred products	-	21	11	1.4	13.7	1.1	2.1	9.5	90.5	115.2	206.4	6.2	0.9	57.0

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Norfolk-Virginia Beach-Portsmouth, Va.-N.C., SMSA—Con.														
23	Apparel and other textile products -----	-	27	9	0.8	6.0	0.7	1.3	3.9	13.3	10.9	24.0	0.9	0.5	4.9
232	Men's and boys' furnishings -----	-	7	4	0.3	2.8	0.3	0.5	1.4	5.3	5.9	11.1	(D)	(NA)	(NA)
24	Lumber and wood products --	-	56	23	2.2	20.6	1.8	3.5	15.2	42.6	138.5	180.9	3.2	2.5	42.6
242	Sawmills and planing mills --	E1	15	8	0.4	2.9	0.4	0.7	2.4	5.4	11.9	17.3	0.6	0.4	4.7
243	Millwork, plywood, and structural members -----	-	19	9	1.0	9.8	0.8	1.5	7.0	21.2	109.2	131.1	(D)	1.1	25.7
249	Miscellaneous wood products -----	-	6	4	0.7	7.1	0.6	1.1	5.1	14.3	16.0	29.5	0.6	0.7	9.4
25	Furniture and fixtures -----	E4	14	4	0.3	2.2	0.2	0.4	1.2	5.3	5.4	10.6	(D)	0.3	3.5
27	Printing and publishing -----	E1	93	9	2.0	21.7	0.9	1.6	8.9	47.1	22.8	69.8	1.6	1.9	29.3
275	Commercial printing -----	E3	63	4	0.5	4.1	0.3	0.5	2.9	8.1	8.5	16.5	0.6	(NA)	(NA)
28	Chemicals and allied products -----	-	28	13	1.5	20.6	0.8	1.7	10.4	45.9	124.2	171.7	5.4	1.3	29.1
287	Agricultural chemicals -----	-	9	7	0.6	6.3	0.4	0.8	3.8	20.4	56.7	80.1	2.2	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	E1	13	4	0.5	5.4	0.4	0.8	3.6	15.3	17.7	33.6	(D)	0.4	4.9
3079	Miscellaneous plastics products -----	E1	9	3	0.5	5.0	0.4	0.8	3.4	14.6	16.0	31.2	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	38	10	1.3	13.2	0.9	1.7	8.4	34.8	39.0	73.9	3.2	1.3	22.6
327	Concrete, gypsum, and plaster products -----	-	29	6	0.8	9.3	0.6	1.2	5.9	25.9	32.1	57.4	2.8	0.9	17.3
3273	Ready-mixed concrete --	-	13	3	0.3	3.9	0.2	0.3	1.9	9.3	13.7	22.9	1.7	(NA)	(NA)
33	Primary metal industries ----	E1	9	5	0.5	5.4	0.4	0.8	4.0	8.6	8.9	17.2	0.6	0.6	9.0
34	Fabricated metal products ---	-	44	13	1.1	12.2	0.8	1.5	7.8	20.1	24.0	43.4	1.0	1.4	15.4
3441	Fabricated structural metal -----	-	10	5	0.5	5.5	0.4	0.7	3.5	9.4	12.4	21.1	0.2	0.6	5.3
3442	Metal doors, sash, and trim -----	-	5	3	0.3	2.3	0.2	0.3	1.5	3.9	4.0	7.9	(D)	(NA)	(NA)
35	Machinery, except electrical -	-	44	13	1.2	14.9	1.0	1.8	10.0	28.1	76.2	108.5	1.7	0.9	11.0
359	Miscellaneous machinery, except electrical -----	-	27	6	0.5	6.3	0.4	0.8	4.7	7.4	6.3	17.0	0.4	0.4	6.3
3599	Machinery, except electrical, n.e.c. -----	-	27	6	0.5	6.3	0.4	0.8	4.7	7.4	6.3	17.0	0.4	0.4	6.3
3731	Ship building and repairing -----	-	12	9	2.7	39.7	2.4	5.6	31.5	56.8	25.2	82.0	(D)	(NA)	(NA)
-	Administrative and auxiliary --	-	16	8	0.7	9.1	-	-	-	-	-	-	-	(NA)	(NA)
	Raleigh-Durham SMSA -----	-	550	179	36.7	474.3	22.4	43.8	217.1	1 109.4	1 495.3	2 531.1	75.7	32.2	567.6
20	Food and kindred products --	-	32	18	2.9	27.0	1.8	3.5	13.5	66.7	208.4	274.6	7.4	3.2	44.8
201	Meat products -----	-	6	4	1.0	8.3	0.8	1.5	6.0	13.3	55.7	68.8	(D)	1.6	11.4
202	Beverages -----	E1	6	5	0.6	6.0	0.2	0.4	1.2	16.2	15.9	32.2	(D)	0.4	7.5
2086	Bottled and canned soft drinks -----	E1	6	5	0.6	6.0	0.2	0.4	1.2	16.2	15.9	32.2	(D)	(NA)	(NA)
22	Textile mill products -----	-	21	15	3.9	35.5	3.5	6.9	29.3	60.5	112.1	179.9	(D)	4.2	41.0
25	Furniture and fixtures -----	E5	15	4	0.3	2.5	0.3	0.5	1.8	4.2	4.5	8.8	0.1	0.4	3.7
251	Household furniture -----	E5	10	4	0.3	2.4	0.3	0.4	1.7	3.9	4.4	8.4	0.1	0.3	3.1
27	Printing and publishing -----	-	125	19	2.1	22.4	1.1	2.0	10.6	51.2	37.8	88.8	2.7	1.8	28.1
275	Commercial printing -----	E1	72	11	0.8	8.8	0.6	1.2	6.3	18.6	22.8	41.2	1.8	0.6	9.8
28	Chemicals and allied products -----	-	17	5	0.8	11.5	0.4	1.1	5.4	51.1	25.8	76.4	1.6	0.4	12.0
30	Rubber and miscellaneous plastics products -----	-	13	5	0.3	2.8	0.2	0.5	2.0	12.3	9.2	21.3	1.0	(NA)	(NA)
34	Fabricated metal products ---	-	29	15	2.2	26.6	1.5	3.1	14.6	73.9	52.1	124.3	3.6	1.0	21.0
349	Miscellaneous fabricated metal products -----	-	5	5	1.3	15.5	0.8	1.8	8.3	44.9	22.5	66.3	2.7	(NA)	(NA)
35	Machinery, except electrical -	-	45	17	6.3	117.1	2.1	4.2	25.0	201.5	481.7	623.0	(D)	5.1	70.2
36	Electric and electronic equipment -----	-	38	16	4.8	52.0	3.3	6.2	28.2	155.6	73.3	224.2	8.3	2.6	39.6
366	Communication equipment -----	-	8	4	2.2	22.6	1.3	2.4	9.7	58.6	32.1	86.6	(D)	(NA)	(NA)
367	Electronic components and accessories -----	-	12	5	0.7	7.9	0.6	1.2	6.0	32.1	8.0	39.7	0.6	(NA)	(NA)
-	Administrative and auxiliary --	-	22	15	2.8	55.4	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SMSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SMSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ² (million dollars)	Value of ship- ments ² (million dollars)	New capital ex- penditures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Wilmington SMSA -----	-	183	64	13.0	166.6	9.3	18.4	103.6	747.8	748.3	1 508.4	29.2	12.1	481.7
20	Food and kindred products --	-	20	8	0.7	6.8	0.4	0.7	4.1	16.4	17.1	33.6	1.6	0.8	12.5
23	Apparel and other textile products -----	E1	9	6	1.5	9.0	1.1	1.9	5.7	18.5	17.3	35.2	0.3	1.8	17.3
27	Printing and publishing -----	E1	21	4	0.3	3.3	0.2	0.4	1.8	8.3	3.2	11.5	(D)	0.3	4.1
28	Chemicals and allied products -----	-	22	16	4.0	64.1	2.8	5.5	39.1	261.7	426.0	695.5	18.7	2.8	130.5
2875	Fertilizers, mixing only --	-	5	5	0.3	2.5	0.2	0.4	1.3	7.2	25.2	32.4	(D)	0.3	5.5
32	Stone, clay, and glass products -----	-	10	2	0.3	3.9	0.2	0.4	3.1	12.4	12.5	24.8	0.3	0.3	11.9
35	Machinery, except electrical -	-	8	4	0.4	4.5	0.3	0.7	3.6	7.6	3.2	10.7	0.1	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.

(Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
		E ¹													
2512	Alamance County (Coextensive with Burlington, N.C., SMSA; see table 6.)														
	Alexander County -----	-	80	25	3.4	25.5	3.1	5.9	21.9	50.2	75.0	124.9	4.9	2.8	27.2
	Upholstered household furniture -----	-	12	7	1.4	10.7	1.3	2.3	9.4	21.1	27.3	48.1	(D)	(NA)	(NA)
	Alleghany County -----	-	19	4	1.3	8.0	1.2	2.2	7.0	11.7	16.7	27.5	1.3	1.3	13.1
	Anson County -----	-	63	23	3.5	29.1	3.1	6.1	21.7	65.1	76.3	142.1	5.6	3.1	40.5
	Ashe County -----	-	51	10	2.8	20.0	2.7	4.9	18.1	43.4	31.9	74.4	2.0	2.4	24.5
	Beaufort County -----	-	73	25	5.0	44.0	4.1	8.3	31.7	93.0	123.7	216.2	9.1	4.4	45.0
	Bertie County -----	-	41	13	2.4	19.4	2.2	4.1	14.7	30.0	64.1	92.2	4.3	1.4	14.3
	Bladen County -----	-	72	15	2.4	17.2	2.1	4.3	13.4	40.3	44.7	84.9	2.7	2.3	19.3
2252	Brunswick County -----	-	48	8	0.7	8.3	0.5	1.2	5.4	22.5	32.2	53.5	2.7	0.5	7.9
	Burke County -----	-	154	75	17.8	154.6	14.9	28.3	107.7	271.1	375.2	645.5	13.6	19.4	213.7
	Hosiery, n.e.c. -----	E ¹	30	16	1.1	6.4	1.0	1.5	5.2	8.5	14.7	23.8	(D)	(NA)	(NA)
2251	Cabarrus County -----	-	111	53	21.1	176.1	18.5	34.5	144.1	335.8	472.6	754.3	16.9	25.6	206.0
	Women's hosiery, except socks -----	-	16	10	1.4	8.8	1.3	2.1	7.1	20.1	30.5	51.4	(D)	(NA)	(NA)
	Caldwell County -----	-	162	83	17.2	144.5	15.1	30.6	113.3	286.8	296.9	583.0	13.6	16.2	191.7
	Carteret County -----	-	58	13	1.7	13.4	1.5	2.7	10.2	29.2	48.0	78.1	2.4	1.3	16.7

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies.
For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
2251	Catawba County -----	-	560	272	35.5	306.6	30.0	56.2	226.0	614.1	766.1	1 371.7	32.1	34.0	389.6
	Women's hosiery, except socks -----	-	13	8	1.3	9.0	1.1	2.0	7.6	16.7	17.9	34.4	(D)	(NA)	(NA)
2252	Hosiery, n.e.c. -----	E1	85	43	3.9	25.4	3.5	6.1	19.9	42.8	68.6	110.1	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	E2	19	5	0.6	4.0	0.5	0.9	3.1	5.6	3.6	9.1	(D)	(NA)	(NA)
242	Sawmills and planing mills -----	E1	58	19	1.1	7.5	1.0	1.8	6.2	11.6	10.9	22.3	0.9	1.0	7.7
2426	Hardwood dimension and flooring -----	E1	49	16	0.9	6.5	0.9	1.6	5.3	10.3	8.6	18.7	0.8	(NA)	(NA)
251	Household furniture -----	-	135	89	14.1	120.7	12.2	22.5	93.5	214.4	240.1	452.2	10.5	12.9	144.4
2512	Upholstered household furniture -----	-	99	71	10.5	89.7	9.0	15.9	69.6	156.6	188.2	342.6	6.8	(NA)	(NA)
3079	Miscellaneous plastics products -----	-	22	18	1.6	13.3	1.3	2.7	9.8	35.2	54.0	88.1	1.9	(NA)	(NA)
-	Administrative and auxiliary --	-	5	5	0.5	6.9	-	-	-	-	-	-	-	(NA)	(NA)
	Chatham County -----	-	87	31	5.4	47.6	4.7	8.9	36.8	120.9	209.1	329.3	10.9	4.9	60.0
	Cherokee County -----	-	33	12	2.0	15.0	1.7	3.5	11.9	33.6	29.5	62.1	1.3	2.9	25.3
	Chowan County -----	-	31	13	1.4	12.3	1.3	2.6	9.6	25.5	30.9	55.9	1.3	1.2	16.7
2257	Cleveland County -----	-	167	74	15.9	155.8	13.5	27.0	121.1	344.8	477.8	814.7	38.3	16.4	246.7
2281	Circular knit fabric mills --	E1	5	4	0.7	6.2	0.6	1.1	4.4	13.8	30.3	45.2	(D)	(NA)	(NA)
	Yarn mills, except wool --	-	10	9	1.8	15.1	1.6	3.1	12.5	31.3	38.6	70.6	4.4	(NA)	(NA)
	Columbus County -----	-	93	28	5.2	57.8	4.3	8.8	43.6	164.9	198.2	363.3	29.6	5.0	89.6
	Craven County -----	-	97	32	3.4	36.6	2.7	5.2	27.0	97.7	129.9	224.1	12.4	3.3	46.0
24	Lumber and wood products --	E2	51	9	0.6	5.4	0.5	1.0	4.4	12.0	15.0	27.0	1.3	0.5	6.3
	Cumberland County (Coextensive with Fayetteville, N.C., SMSA; see table 6.)														
	Davidson County -----	-	283	107	23.4	212.6	19.9	38.7	158.6	427.8	422.8	844.5	25.2	21.0	261.3
22	Textile mill products -----	-	28	19	4.9	40.9	4.4	8.4	34.4	78.8	109.8	186.0	6.9	4.8	50.3
2252	Hosiery, n.e.c. -----	-	14	10	1.3	8.1	1.2	2.0	7.1	14.4	15.5	29.9	0.1	(NA)	(NA)
228	Yarn and thread mills -----	-	4	4	1.0	8.3	1.0	2.0	7.6	19.8	26.0	46.4	(D)	(NA)	(NA)
2512	Upholstered household furniture -----	E1	23	6	0.6	4.8	0.5	0.9	3.5	8.5	8.6	16.6	0.3	(NA)	(NA)
-	Administrative and auxiliary --	-	6	3	0.5	7.7	-	-	-	-	-	-	-	(NA)	(NA)
	Davie County -----	-	51	20	2.8	25.5	2.2	3.7	15.7	56.4	166.8	228.1	9.0	2.6	27.0
23	Apparel and other textile products -----	-	9	6	0.6	3.5	0.5	0.8	2.5	5.3	2.8	8.1	0.1	0.7	3.5
	Duplin County -----	-	61	19	3.6	29.4	3.1	6.2	23.6	62.0	150.2	215.9	6.3	3.7	46.0
22	Textile mill products -----	-	6	5	1.6	15.7	1.4	2.9	12.8	31.7	80.1	114.1	5.6	(NA)	(NA)
23	Apparel and other textile products -----	-	7	7	0.7	4.4	0.6	1.1	3.4	10.4	13.9	24.1	0.1	(NA)	(NA)
	Durham County -----	-	146	56	16.0	248.8	8.1	15.6	91.0	546.4	984.1	1 463.5	44.0	14.6	301.5
27	Printing and publishing -----	-	32	4	0.6	7.0	0.4	0.7	3.9	16.0	16.5	32.4	1.0	(NA)	(NA)
-	Administrative and auxiliary --	-	12	10	2.3	46.0	-	-	-	-	-	-	-	(NA)	(NA)
	Edgecombe County -----	-	59	35	6.8	62.7	5.4	11.0	44.2	185.1	223.0	406.4	13.1	6.5	96.4
22	Textile mill products -----	-	12	10	2.5	21.8	2.1	4.4	16.7	43.9	67.1	112.7	5.6	2.4	30.7
	Forsyth County -----	-	292	121	41.7	572.7	28.7	55.2	335.2	2 140.0	1 707.0	3 828.1	90.4	38.7	1 155.4
20	Food and kindred products --	E1	28	14	2.6	34.9	1.5	2.8	18.2	123.5	180.6	304.4	2.7	2.2	95.0
205	Bakery products -----	-	9	6	0.9	8.7	0.6	1.1	5.0	18.6	15.4	34.0	0.7	0.7	8.2
22	Textile mill products -----	-	14	8	5.2	46.3	4.4	8.6	36.7	122.3	95.5	214.1	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	32	18	5.0	58.5	3.2	6.1	39.7	107.3	198.3	304.2	5.1	1.8	40.3
344	Fabricated structural metal products -----	E1	14	9	1.5	17.3	1.0	1.9	9.7	27.0	39.2	67.6	1.2	0.5	10.1
-	Administrative and auxiliary --	-	18	16	4.7	96.9	-	-	-	-	-	-	-	(NA)	(NA)
	Franklin County -----	-	58	15	2.4	17.2	2.2	3.9	14.4	35.7	48.5	81.8	4.1	2.2	22.4
23	Apparel and other textile products -----	-	7	4	0.6	3.5	0.5	1.0	3.0	6.6	7.5	14.0	(Z)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Gaston County -----	-	423	182	38.3	349.2	31.9	53.4	259.4	722.3	1 065.6	1 791.0	45.3	42.3	514.6
22	Textile mill products -----	-	107	84	25.1	208.4	22.9	45.8	178.1	404.4	765.3	1 173.4	20.7	29.2	312.4
225	Knitting mills -----	-	34	22	3.8	30.1	3.4	6.5	25.1	45.2	121.2	165.8	3.5	4.2	41.2
2257	Circular knit fabric mills --	-	17	12	1.9	16.5	1.7	3.2	13.2	26.2	87.5	114.4	2.6	(NA)	(NA)
228	Yarn and thread mills -----	-	56	53	17.5	141.9	16.1	33.0	123.1	278.4	458.0	733.9	14.1	18.9	190.4
23	Apparel and other textile products -----	E1	20	11	1.1	7.2	1.0	1.9	5.7	13.3	14.7	27.7	0.2	1.6	14.6
232	Men's and boys' furnishings -----	E2	8	3	0.5	3.1	0.5	0.9	2.7	4.6	5.9	10.5	0.1	0.6	4.8
27	Printing and publishing -----	-	34	6	0.6	6.2	0.3	0.6	2.6	16.8	7.4	24.1	0.9	(NA)	(NA)
28	Chemicals and allied products -----	-	12	6	0.8	10.0	0.5	1.0	6.0	38.1	61.4	105.5	5.6	(NA)	(NA)
34	Fabricated metal products ---	E1	32	5	0.5	5.4	0.4	0.7	3.1	12.4	16.4	28.2	(D)	(NA)	(NA)
35	Machinery, except electrical --	-	129	31	4.1	43.8	2.6	5.0	22.8	112.6	85.4	195.0	5.5	(NA)	(NA)
355	Special industry machinery --	-	65	20	2.3	25.6	1.5	3.1	14.7	50.5	38.4	87.9	2.9	3.3	72.5
39	Miscellaneous manufacturing industries -----	-	8	4	0.6	4.7	0.5	1.1	3.4	10.8	12.3	22.9	1.2	(NA)	(NA)
--	Administrative and auxiliary --	-	9	9	0.9	13.7	-	-	-	-	-	-	-	(NA)	(NA)
	Granville County -----	-	47	23	3.2	28.3	2.5	5.1	16.8	65.1	120.6	185.4	5.4	3.3	43.7
22	Textile mill products -----	-	11	10	1.3	12.1	1.1	2.3	8.7	21.8	62.7	84.7	4.2	1.7	20.0
	Gulford County -----	-	836	373	55.8	634.2	38.5	75.1	331.8	1 267.4	1 383.8	2 644.1	65.3	58.0	912.8
225	Knitting mills -----	-	42	27	4.9	44.0	4.1	8.4	31.1	113.4	159.6	271.3	7.6	7.0	77.9
2251	Women's hosiery, except socks -----	-	8	7	0.7	4.5	0.7	1.1	3.7	7.5	7.8	15.5	0.3	(NA)	(NA)
2252	Hosiery, n.e.c. -----	-	15	11	1.9	13.4	1.7	3.3	10.7	23.8	24.7	48.9	0.5	(NA)	(NA)
228	Yarn and thread mills -----	-	10	7	1.8	15.8	1.6	3.3	13.4	24.9	64.3	89.3	1.5	2.2	24.5
2752	Commercial printing, lithographic -----	-	33	6	0.5	4.9	0.3	0.6	2.8	9.7	6.4	16.0	(D)	(NA)	(NA)
278	Blankbooks and bookbinding -----	E1	9	6	0.6	5.7	0.6	1.0	4.1	12.4	3.5	15.9	(D)	0.5	3.5
2851	Paints and allied products -----	-	7	6	0.9	15.7	0.4	0.8	4.5	33.6	71.3	104.6	1.8	(NA)	(NA)
347	Metal services, n.e.c. -----	E9	9	3	0.5	4.4	0.4	0.8	3.1	8.5	3.5	11.9	0.4	(NA)	(NA)
3471	Plating and polishing -----	E9	9	3	0.5	4.4	0.4	0.8	3.1	8.5	3.5	11.9	0.4	(NA)	(NA)
--	Administrative and auxiliary --	-	36	28	7.6	151.3	-	-	-	-	-	-	-	(NA)	(NA)
	Halifax County -----	-	96	35	5.9	58.0	5.1	10.5	45.5	114.8	160.3	274.0	5.3	5.4	83.0
23	Apparel and other textile products -----	-	7	5	1.0	6.0	0.9	1.7	5.4	9.6	4.6	14.0	(D)	1.3	11.1
24	Lumber and wood products --	E1	52	7	0.6	5.3	0.6	1.1	3.7	9.3	11.5	21.3	0.8	0.8	8.4
	Harnett County -----	-	45	17	5.4	47.1	4.7	9.4	36.6	102.3	140.9	237.8	5.3	4.5	50.2
23	Apparel and other textile products -----	E1	7	6	1.7	10.2	1.4	2.5	7.8	19.5	17.4	36.3	(D)	1.3	6.8
	Haywood County -----	-	33	13	5.3	70.7	4.3	8.7	54.6	211.6	269.6	474.2	(D)	5.7	111.1
	Henderson County -----	-	93	30	4.8	54.2	3.7	7.3	34.5	208.8	120.0	326.2	5.8	4.5	80.6
22	Textile mill products -----	-	9	8	1.1	10.3	0.9	1.8	8.1	17.6	14.4	32.1	(D)	1.8	28.8
23	Apparel and other textile products -----	-	9	5	0.5	4.1	0.4	0.6	2.5	9.2	7.3	16.2	0.2	0.5	5.2
	Hertford County -----	-	47	13	2.2	18.4	1.8	3.3	13.4	44.8	97.1	139.6	4.3	2.0	36.0
24	Lumber and wood products --	-	22	4	0.7	5.6	0.7	1.3	4.7	13.9	15.2	28.7	0.8	0.7	9.3
	Hoke County -----	-	11	7	3.5	27.9	3.0	5.9	19.4	48.2	152.1	201.3	(D)	3.0	35.0
	Iredell County -----	-	184	94	15.7	131.5	13.4	25.6	97.1	284.0	343.1	627.0	56.0	15.9	183.6
22	Textile mill products -----	-	29	22	5.7	48.8	5.0	9.9	39.0	99.0	147.0	244.4	(D)	6.7	65.2
228	Yarn and thread mills -----	-	5	5	1.6	13.2	1.5	3.0	11.6	22.1	40.5	62.0	(D)	1.7	15.1
2281	Yarn mills, except wool --	-	5	5	1.6	13.2	1.5	3.0	11.6	22.1	40.5	62.0	(D)	(NA)	(NA)
23	Apparel and other textile products -----	E1	16	14	3.5	21.5	3.1	5.6	16.6	31.0	20.9	52.4	(D)	3.4	26.4
232	Men's and boys' furnishings -----	-	9	9	1.7	10.3	1.4	2.5	7.5	12.2	10.8	23.0	0.1	1.0	6.9
25	Furniture and fixtures -----	-	19	18	2.2	16.7	2.0	3.8	12.9	29.9	25.7	55.3	1.2	1.7	14.8
251	Household furniture -----	-	15	14	1.9	13.3	1.7	3.2	10.7	23.4	22.2	45.5	(D)	1.3	11.1
34	Fabricated metal products ---	-	12	4	0.8	10.1	0.7	1.4	6.6	32.3	14.0	47.1	0.4	1.1	26.2
35	Machinery, except electrical --	-	27	6	0.8	9.1	0.7	1.3	5.7	25.5	11.7	37.2	(D)	0.7	12.2

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Jackson County -----	-	17	6	1.5	10.1	1.3	2.4	7.9	19.3	17.2	36.4	0.8	1.6	13.3
23	Apparel and other textile products -----	-	3	3	1.1	6.7	1.0	1.8	5.5	12.1	10.1	22.2	(D)	1.1	5.7
	Johnston County -----	-	107	32	7.2	62.0	6.0	11.0	45.1	216.8	307.1	513.5	6.0	7.0	84.7
22	Textile mill products -----	-	6	5	1.4	11.4	1.3	2.3	9.9	23.4	37.1	59.9	0.8	1.7	14.7
23	Apparel and other textile products -----	-	6	5	1.3	7.2	1.1	1.7	5.3	13.1	10.6	24.2	0.2	1.5	9.5
	Lee County -----	-	100	37	7.0	65.7	5.7	10.9	41.7	173.3	179.4	355.4	13.0	6.4	88.9
22	Textile mill products -----	-	9	8	1.2	9.6	1.0	2.1	7.4	27.8	51.4	79.2	0.8	1.2	11.9
23	Apparel and other textile products -----	E3	7	4	1.0	5.7	0.9	1.4	4.8	8.9	6.6	15.8	(D)	(NA)	(NA)
25	Furniture and fixtures -----	-	4	4	0.5	3.9	0.5	0.9	3.1	9.8	9.7	19.7	0.6	(NA)	(NA)
35	Machinery, except electrical --	-	15	6	1.2	11.5	1.0	1.9	8.7	24.7	21.1	49.5	2.9	1.0	11.6
	Lenoir County -----	-	80	39	9.0	99.2	6.9	13.4	63.5	242.1	336.5	578.6	15.1	7.3	139.1
20	Food and kindred products --	E7	11	5	0.6	5.9	0.4	0.7	3.4	10.4	48.1	58.5	(D)	0.6	8.8
22	Textile mill products -----	-	7	6	1.2	10.9	1.1	2.3	9.0	22.4	36.8	59.0	0.7	1.1	14.4
23	Apparel and other textile products -----	-	13	11	2.3	14.2	1.9	3.5	9.0	27.7	59.5	86.2	0.5	(NA)	(NA)
	Lincoln County -----	-	102	42	6.8	56.6	6.0	11.5	45.2	108.9	146.0	251.6	13.9	6.7	77.1
22	Textile mill products -----	-	36	23	4.2	34.8	3.9	7.7	29.7	61.9	89.0	149.5	9.4	4.9	57.4
228	Yarn and thread mills -----	-	15	12	1.4	10.8	1.3	2.5	9.0	21.2	33.4	53.9	(D)	1.8	18.0
25	Furniture and fixtures -----	-	7	5	1.1	8.9	0.9	1.5	6.0	20.9	23.4	43.0	1.8	1.0	10.8
	McDowell County -----	-	66	31	10.8	88.6	9.6	17.4	71.5	178.5	180.8	353.4	21.8	7.3	96.5
22	Textile mill products -----	-	17	12	3.9	33.9	3.5	6.9	27.6	45.8	85.5	132.3	(D)	4.1	52.6
225	Knitting mills -----	E1	9	4	0.5	2.7	0.4	0.8	2.3	3.7	9.2	12.9	0.1	0.5	3.9
226	Textile finishing, except wool -----	-	3	3	0.9	9.2	0.8	1.6	6.8	10.5	11.5	21.9	(D)	(NA)	(NA)
232	Men's and boys' furnishings -----	-	3	3	0.5	3.0	0.5	0.8	2.7	4.0	1.8	5.6	(D)	(NA)	(NA)
25	Furniture and fixtures -----	-	5	5	2.0	15.2	1.8	3.5	12.6	26.8	23.5	50.4	3.8	1.3	18.7
251	Household furniture -----	-	5	5	2.0	15.2	1.8	3.5	12.6	26.8	23.5	50.4	3.8	1.3	18.7
	Macon County -----	-	33	7	0.9	7.2	0.8	1.4	5.2	28.6	13.8	41.1	2.2	0.9	7.8
	Martin County -----	-	37	12	2.1	17.0	1.8	3.6	13.5	27.1	76.5	104.9	1.8	1.9	22.1
	Mecklenburg County -----	-	852	309	40.0	471.4	25.1	48.9	237.4	1 018.4	1 233.8	2 227.4	52.7	38.3	624.9
20	Food and kindred products --	-	44	25	6.6	72.3	3.2	6.3	28.2	180.6	283.6	463.3	12.1	6.6	99.6
22	Textile mill products -----	-	47	22	2.6	22.6	2.3	4.3	18.3	47.6	62.6	110.9	4.2	3.5	41.0
225	Knitting mills -----	-	15	6	0.9	6.7	0.7	1.2	4.9	17.0	28.4	45.1	(D)	1.1	10.5
23	Apparel and other textile products -----	-	39	20	2.4	18.4	2.1	3.9	13.1	26.5	40.0	66.9	1.3	2.0	13.2
239	Miscellaneous fabricated textile products -----	E1	25	10	1.1	9.3	1.0	1.9	7.2	13.7	16.4	30.4	0.8	1.1	6.5
2391	Curtains and draperies --	-	8	2	0.6	4.4	0.6	1.1	3.6	3.8	1.7	5.5	(D)	(NA)	(NA)
25	Furniture and fixtures -----	E1	24	9	0.8	7.4	0.7	1.3	5.8	12.3	12.2	24.3	(D)	(NA)	(NA)
264	Miscellaneous converted paper products -----	E1	13	6	0.7	9.2	0.5	0.9	4.8	16.5	22.8	39.1	1.2	0.5	6.2
27	Printing and publishing -----	-	154	31	3.3	37.4	2.1	4.1	22.2	80.9	53.4	132.8	3.0	3.3	53.1
275	Commercial printing -----	E1	97	18	1.4	15.4	1.1	2.1	10.9	32.8	26.9	58.8	1.6	1.3	18.7
2751	Letterpress -----	E1	53	6	0.5	4.9	0.3	0.6	3.3	12.7	12.7	24.9	0.4	(NA)	(NA)
2752	Commercial printing, lithographic -----	E1	36	7	0.7	7.8	0.5	1.0	5.5	15.9	12.6	28.1	1.1	(NA)	(NA)
28	Chemicals and allied products -----	-	61	23	2.7	34.7	1.6	3.3	16.2	136.7	179.1	307.3	8.2	2.4	71.5
289	Miscellaneous chemical products -----	-	24	6	1.1	13.3	0.7	1.4	5.7	39.4	46.0	84.2	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	29	16	3.0	34.0	2.2	4.4	22.6	108.2	155.2	262.0	(D)	(NA)	(NA)
33	Primary metal industries -----	-	12	8	0.7	7.8	0.6	1.0	5.8	16.0	26.6	42.9	0.7	1.2	22.7
34	Fabricated metal products ---	-	88	32	2.5	29.7	1.9	3.8	19.2	58.9	76.3	132.9	3.2	2.3	38.5
344	Fabricated structural metal products -----	-	43	18	1.0	12.6	0.8	1.6	7.7	26.9	49.9	75.6	1.0	1.1	16.3
349	Miscellaneous fabricated metal products -----	-	14	5	0.8	9.7	0.6	1.2	5.8	18.6	16.2	33.8	1.4	(NA)	(NA)
35	Machinery, except electrical --	-	130	39	5.6	71.7	3.6	7.1	39.5	194.7	141.2	328.3	7.0	5.0	89.2
355	Special industry machinery -----	-	35	17	1.4	14.6	0.9	1.7	7.9	23.3	26.7	51.8	(D)	(NA)	(NA)
-	Administrative and auxiliary --	-	50	25	3.4	59.6	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
22 225	Mitchell County -----	-	26	7	1.5	11.8	1.5	2.8	10.8	23.6	17.4	40.3	(D)	1.5	11.5
	Montgomery County -----	-	100	37	5.0	46.3	5.2	9.3	34.8	79.9	89.7	168.1	5.6	5.5	52.2
	Textile mill products -----	-	22	17	3.5	27.9	3.1	5.6	22.4	45.0	60.1	104.0	4.2	3.4	31.0
23	Knitting mills -----	-	18	13	2.4	18.8	2.2	3.7	14.6	31.5	38.2	68.6	3.9	1.8	17.4
	Apparel and other textile products -----	E1	12	5	1.1	7.7	0.9	1.6	4.5	8.8	5.3	14.0	(Z)	(NA)	(NA)
	Furniture and fixtures -----	-	6	6	0.8	4.1	0.4	0.8	3.2	10.8	8.5	19.3	0.2	(NA)	(NA)
25 251	Household furniture -----	-	6	6	0.6	4.1	0.4	0.8	3.2	10.8	8.5	19.3	0.2	(NA)	(NA)
	Moore County -----	-	77	27	4.6	39.1	4.1	7.9	32.3	95.9	145.4	241.3	4.3	3.9	50.4
	Textile mill products -----	-	7	7	1.3	12.4	1.2	2.5	10.6	40.3	85.2	125.8	1.4	1.1	19.6
23	Apparel and other textile products -----	-	6	6	1.1	7.8	1.0	1.9	7.1	10.9	5.8	16.7	0.2	(NA)	(NA)
	Nash County -----	-	114	63	12.4	104.2	10.7	20.8	81.4	248.7	379.2	623.9	24.7	9.4	107.6
	Textile mill products -----	-	13	11	3.6	30.6	3.2	6.4	24.9	64.0	148.5	210.9	(D)	3.2	41.7
22 2211	Weaving mills, cotton ---	-	4	4	0.7	6.3	0.6	1.2	5.1	18.0	19.7	36.9	(D)	(NA)	(NA)
	Apparel and other textile products -----	-	22	18	2.5	15.3	2.4	4.2	13.4	24.8	37.1	62.3	(D)	2.3	18.4
	Children's outerwear -----	-	9	9	0.9	5.0	0.8	1.4	4.5	6.3	0.4	6.7	0.1	0.9	3.4
24	Lumber and wood products --	-	23	8	0.7	6.4	0.6	1.3	4.7	8.7	20.7	29.8	(D)	(NA)	(NA)
	Furniture and fixtures -----	-	5	5	0.6	4.7	0.5	0.8	3.4	11.0	12.1	22.9	(D)	(NA)	(NA)
	New Hanover County -----	-	135	56	12.2	158.3	8.7	17.2	98.2	725.3	716.1	1 454.8	26.5	11.7	473.8
20	Food and kindred products --	-	13	6	0.5	4.9	0.2	0.4	2.3	13.4	13.1	26.7	(D)	0.7	12.0
	Chemicals and allied products -----	-	18	12	3.6	59.5	2.5	5.1	36.9	246.4	403.0	658.2	16.7	(NA)	(NA)
	Northampton County -----	-	40	18	1.8	12.5	1.6	2.9	10.0	27.8	37.5	66.1	3.7	1.5	19.8
24	Lumber and wood products --	-	24	7	0.7	4.8	0.6	1.1	3.9	10.6	13.2	24.6	3.2	0.8	7.4
	Onslow County -----	-	40	12	1.9	14.4	1.7	3.1	11.1	31.8	64.5	95.2	6.6	1.7	14.3
	Apparel and other textile products -----	-	6	5	0.9	4.1	0.8	1.2	3.3	6.1	3.8	9.8	(D)	1.2	6.3
23	Orange County -----	-	58	13	1.9	17.7	1.6	3.2	13.5	29.3	45.0	73.5	1.5	2.1	16.8
	Pasquotank County -----	-	36	12	1.5	13.3	1.2	2.2	9.1	28.0	22.7	51.7	1.5	1.8	17.6
	Pender County -----	-	22	6	0.5	3.9	0.4	0.7	2.9	4.6	13.5	17.9	0.3	0.3	2.9
Person County -----	Person County -----	-	34	13	4.0	37.1	3.4	7.1	29.0	80.4	105.4	184.3	2.6	4.3	53.4
	Pitt County -----	-	92	36	7.0	69.3	5.3	11.0	43.2	252.9	286.6	535.5	11.1	8.0	132.8
	Food and kindred products --	-	8	5	0.6	7.5	0.4	0.9	4.6	1.8	33.2	36.1	(D)	(NA)	(NA)
22	Textile mill products -----	-	8	6	1.5	12.8	1.3	2.8	10.4	33.1	57.3	89.7	(D)	1.3	21.4
	Apparel and other textile products -----	-	9	7	1.2	6.7	0.9	1.8	4.4	9.2	0.7	8.9	0.3	1.5	7.0
	Women's and misses' outerwear -----	-	6	5	0.8	5.1	0.6	1.2	2.9	7.1	0.5	6.5	(D)	0.5	2.4
35	Machinery, except electrical --	-	12	4	0.8	9.0	0.6	1.2	6.5	22.3	28.8	50.6	1.8	(NA)	(NA)
	Polk County -----	-	26	7	0.8	6.4	0.8	1.2	4.6	14.9	49.4	64.3	1.8	1.0	8.1
	Textile mill products -----	-	10	5	0.7	5.6	0.6	1.0	4.0	12.7	46.8	59.5	(D)	0.9	7.6
22	Randolph County -----	-	274	111	20.9	184.8	17.7	33.2	135.4	392.7	480.2	864.4	29.6	18.5	239.7
	Textile mill products -----	-	57	43	9.2	81.9	7.9	15.5	60.7	130.8	203.8	330.5	13.2	9.9	101.5
	Knitting mills -----	-	46	33	5.0	38.4	4.5	8.2	31.1	64.5	92.9	157.0	(D)	5.3	45.2
2257 233	Circular knit fabric mills --	-	6	5	0.8	7.0	0.7	1.5	5.8	13.3	19.9	33.3	1.2	(NA)	(NA)
	Women's and misses' outerwear -----	E1	8	4	0.8	4.2	0.7	1.0	3.5	6.3	2.3	8.6	0.1	0.8	5.2
	Furniture and fixtures -----	-	38	19	3.7	30.3	3.3	6.0	23.9	63.6	66.1	128.0	3.2	2.2	24.9
251 2512	Household furniture -----	-	34	15	3.2	25.9	2.9	5.0	20.7	55.1	59.2	112.7	2.8	2.0	22.3
	Upholstered household furniture -----	-	17	7	1.7	14.9	1.6	2.6	12.1	28.8	34.3	62.9	(D)	(NA)	(NA)
	Richmond County -----	-	64	34	6.3	54.6	5.8	11.5	45.1	147.2	153.8	295.2	6.4	5.1	44.5
22 2221	Textile mill products -----	-	11	10	3.6	32.2	3.3	7.1	27.5	82.8	76.9	158.8	3.2	3.4	29.5
	Weaving mills, manmade fiber and silk -----	-	3	3	2.1	20.9	2.0	4.2	17.7	41.5	38.3	80.0	(D)	(NA)	(NA)
	Apparel and other textile products -----	E1	6	4	0.6	3.1	0.5	0.9	2.9	5.3	3.0	8.2	0.1	0.5	3.8

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Robeson County -----	-	126	58	11.0	85.4	9.5	18.3	68.9	207.8	246.7	453.7	9.4	10.5	117.4
20	Food and kindred products --	-	10	4	0.7	5.6	0.5	1.1	3.5	10.9	33.4	44.2	1.1	0.6	8.9
22	Textile mill products -----	-	21	18	4.3	36.1	3.9	7.7	30.4	112.5	123.9	236.9	4.7	4.2	60.0
225	Knitting mills -----	-	12	12	2.5	18.6	2.3	4.2	16.0	75.3	47.5	122.7	2.1	2.3	26.5
23	Apparel and other textile products -----	E1	20	16	2.5	15.0	2.3	4.4	13.1	24.2	15.8	40.3	0.5	2.3	18.2
232	Men's and boys' furnishings -----	E1	7	7	1.2	7.1	1.1	2.1	6.4	10.5	4.8	15.1	0.1	(NA)	(NA)
2321	Men's and boys' shirts and nightwear -----	E2	4	4	0.7	4.0	0.6	1.2	3.6	6.6	3.8	10.2	(D)	(NA)	(NA)
	Rockingham County -----	-	103	54	16.7	162.4	13.7	27.0	116.7	438.3	805.3	1 231.7	115.4	17.2	306.2
22	Textile mill products -----	-	25	22	9.4	86.1	8.3	17.0	70.8	159.0	343.5	498.8	(D)	9.1	88.2
228	Yarn and thread mills -----	-	9	9	4.5	40.7	3.9	8.0	32.0	72.7	202.7	274.0	(D)	4.5	40.3
23	Apparel and other textile products -----	-	10	9	2.6	21.7	2.2	4.2	15.3	42.8	113.4	149.6	0.8	3.7	57.7
233	Women's and misses' outerwear -----	-	3	3	0.5	2.6	0.4	0.8	2.2	3.6	1.2	4.8	(D)	(NA)	(NA)
2331	Women's and misses' blouses and waists -----	-	3	3	0.5	2.6	0.4	0.8	2.2	3.6	1.2	4.8	(D)	(NA)	(NA)
	Rowan County -----	-	162	67	14.1	130.3	11.7	21.6	96.6	400.1	508.1	902.6	23.1	13.5	233.1
20	Food and kindred products --	-	17	7	0.7	7.1	0.4	0.8	3.2	23.2	18.7	41.9	0.6	0.9	13.1
22	Textile mill products -----	-	18	12	5.4	42.6	5.0	9.5	36.8	87.7	118.1	202.3	10.7	5.3	49.2
228	Yarn and thread mills -----	-	7	6	3.0	22.3	2.8	5.2	19.3	41.3	67.3	107.6	(D)	3.1	26.3
23	Apparel and other textile products -----	-	14	9	1.5	9.2	1.2	2.0	6.4	15.7	18.7	36.1	(D)	1.4	10.6
25	Furniture and fixtures -----	E1	13	6	0.6	4.9	0.5	0.8	3.7	10.6	10.1	20.8	0.3	0.7	9.5
32	Stone, clay, and glass products -----	-	17	8	0.5	4.7	0.4	0.7	3.2	11.4	14.6	25.8	2.2	(NA)	(NA)
	Rutherford County -----	-	85	40	10.3	92.9	9.0	18.1	73.9	188.7	201.9	388.6	16.6	9.7	146.4
22	Textile mill products -----	-	25	16	6.7	62.4	5.9	12.0	50.5	116.8	130.9	246.7	10.0	6.3	100.0
2221	Weaving mills, manmade fiber and silk -----	-	6	6	4.3	40.2	3.8	7.4	32.1	69.4	59.9	130.1	5.2	(NA)	(NA)
23	Apparel and other textile products -----	E1	10	8	1.3	9.6	1.1	2.0	6.7	16.6	12.3	28.6	0.2	1.4	13.5
233	Women's and misses' outerwear -----	-	6	4	0.8	6.6	0.6	1.2	4.3	11.6	6.9	18.2	0.1	0.8	7.7
25	Furniture and fixtures -----	-	3	3	1.5	13.4	1.3	2.9	11.2	35.8	34.2	70.6	(D)	1.3	24.2
30	Rubber and miscellaneous plastics products -----	-	7	7	0.5	4.6	0.4	0.9	3.8	12.1	11.5	23.0	1.6	(NA)	(NA)
	Sampson County -----	-	73	29	4.5	36.8	3.9	7.5	28.1	100.2	181.9	281.1	(D)	3.9	49.0
23	Apparel and other textile products -----	E2	10	7	1.2	7.3	1.1	2.0	6.3	7.9	1.9	10.0	0.1	1.4	10.7
	Scotland County -----	-	42	24	6.4	66.4	5.6	12.3	56.0	148.5	305.2	442.4	8.7	6.2	70.0
22	Textile mill products -----	-	8	8	2.5	25.4	2.2	5.1	21.5	55.1	139.8	191.0	(D)	2.8	29.0
	Stanly County -----	-	99	43	9.4	82.4	8.3	16.2	65.7	336.7	269.2	599.3	11.7	10.6	137.3
22	Textile mill products -----	-	22	18	5.2	43.6	4.7	9.5	35.7	160.8	121.0	281.9	6.7	6.2	82.5
228	Yarn and thread mills -----	-	8	6	3.2	24.8	3.1	6.0	22.0	48.4	62.9	111.7	(D)	3.6	33.8
23	Apparel and other textile products -----	-	14	8	1.4	8.3	1.2	2.3	7.3	12.5	12.8	25.4	0.1	1.7	10.6
239	Miscellaneous fabricated textile products -----	-	4	3	0.7	4.6	0.6	1.1	3.9	4.8	5.2	10.0	(D)	(NA)	(NA)
	Surry County -----	-	118	50	13.6	102.6	12.5	23.4	84.5	217.8	273.8	482.6	9.7	13.7	158.0
22	Textile mill products -----	-	31	20	8.5	64.4	8.0	14.8	56.3	132.9	162.9	288.4	7.1	8.9	96.7
2252	Hosiery, n.e.c. -----	-	14	10	2.3	15.7	2.2	4.2	13.5	25.8	26.9	51.5	1.4	(NA)	(NA)
25	Furniture and fixtures -----	-	4	3	1.1	7.3	1.1	2.2	6.9	12.2	15.6	27.3	(D)	1.0	7.4
251	Household furniture -----	-	4	3	1.1	7.3	1.1	2.2	6.9	12.2	15.6	27.3	(D)	1.0	7.4
	Swain County -----	-	14	7	1.1	7.3	1.0	1.8	5.2	14.5	18.0	33.0	0.5	1.0	9.4
23	Apparel and other textile products -----	-	3	3	0.5	3.5	0.5	0.9	2.6	6.9	10.8	17.4	0.1	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Union County -----	-	126	57	8.8	74.1	7.2	13.9	51.0	144.4	293.2	442.5	10.5	7.8	99.8
20	Food and kindred products --	-	11	3	1.4	9.7	1.2	2.1	7.9	10.7	95.5	110.0	(D)	0.9	10.9
22	Textile mill products -----	-	16	11	1.9	14.7	1.7	3.4	11.9	23.0	52.5	75.7	1.1	2.4	28.9
225	Knitting mills -----	E1	7	4	0.8	6.7	0.7	1.4	5.1	11.5	26.6	37.9	(D)	0.9	14.1
23	Apparel and other textile products -----	-	12	10	1.8	10.5	1.7	3.1	8.7	18.7	22.9	41.6	0.5	1.4	11.8
239	Miscellaneous fabricated textile products -----	-	6	5	0.9	5.8	0.8	1.5	4.2	11.1	20.2	31.3	(D)	(NA)	(NA)
24	Lumber and wood products --	E6	25	8	0.7	5.8	0.6	1.1	4.7	19.4	21.0	40.1	0.5	(NA)	(NA)
34	Fabricated metal products ---	-	7	3	0.5	6.2	0.4	0.8	3.4	16.8	9.5	26.1	(D)	0.7	11.6
	Vance County -----	-	52	33	6.8	57.0	5.9	11.5	45.5	107.9	148.0	258.1	8.4	6.5	75.3
22	Textile mill products -----	-	14	13	3.8	29.0	3.4	6.9	23.9	50.6	76.7	128.0	4.8	3.9	38.6
23	Apparel and other textile products -----	-	4	4	0.5	2.9	0.4	0.6	2.5	5.4	9.3	14.9	(D)	0.5	2.6
	Wake County -----	-	346	110	18.8	207.8	12.7	24.9	112.7	533.7	466.2	994.1	30.2	15.5	249.3
20	Food and kindred products --	-	19	12	2.0	19.1	1.3	2.5	9.5	50.0	148.3	197.9	6.0	2.4	37.5
22	Textile mill products -----	-	10	7	1.3	12.3	1.1	2.3	9.6	24.5	34.8	65.0	3.2	(NA)	(NA)
27	Printing and publishing -----	-	77	11	1.3	13.8	0.7	1.2	6.2	32.4	20.1	52.4	1.6	1.0	16.8
275	Commercial printing -----	E1	45	7	0.5	5.1	0.4	0.7	3.4	10.5	8.6	19.0	0.9	(NA)	(NA)
28	Chemicals and allied products -----	-	8	5	0.8	11.4	0.4	1.1	5.4	50.6	25.0	75.1	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	21	12	2.0	25.0	1.4	2.9	13.5	71.8	50.2	120.4	3.6	(NA)	(NA)
--	Administrative and auxiliary --	-	10	5	0.5	9.4	-	-	-	-	-	-	-	(NA)	(NA)
	Warren County -----	-	39	7	0.9	6.6	0.8	1.7	5.5	9.1	20.8	29.6	0.6	1.0	7.0
	Watauga County -----	-	45	8	2.1	16.2	1.8	3.4	12.5	32.6	19.8	52.6	1.1	2.0	22.3
	Wayne County -----	-	96	41	6.8	58.3	5.3	10.9	38.7	126.6	163.4	288.8	(D)	5.5	73.8
20	Food and kindred products --	-	13	7	1.0	10.5	0.6	1.2	4.3	27.9	40.8	68.6	1.4	0.5	12.0
22	Textile mill products -----	-	4	4	1.1	9.8	1.0	2.0	7.9	21.9	33.8	55.0	(D)	0.6	10.2
23	Apparel and other textile products -----	-	8	7	1.5	8.9	1.3	2.8	7.3	20.1	24.6	44.6	0.3	1.5	11.3
34	Fabricated metal products ---	-	8	4	0.5	3.0	0.4	0.8	2.1	5.0	4.7	9.5	(D)	(NA)	(NA)
	Wilkes County -----	-	119	33	8.2	65.1	7.1	13.8	49.5	134.5	279.9	417.8	5.9	7.4	90.0
22	Textile mill products -----	-	11	6	1.4	10.3	1.3	2.5	9.0	18.5	56.2	78.7	(D)	1.3	15.2
23	Apparel and other textile products -----	-	7	5	0.8	4.5	0.7	1.3	3.7	4.2	8.2	12.3	0.1	1.2	11.2
	Wilson County -----	-	76	39	7.7	77.4	6.1	11.7	54.9	211.4	350.5	555.2	13.3	6.4	92.6
20	Food and kindred products --	-	11	7	0.6	7.0	0.3	0.6	3.9	14.6	80.8	97.0	1.1	0.9	19.2
	Yancey County -----	-	26	8	1.3	9.6	1.2	2.0	8.1	19.9	33.0	52.5	0.4	1.0	9.6

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. **Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972**

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
22 2251	Ahoke - - - - -	-	20	6	1.0	8.7	0.8	1.5	6.8	21.0	52.4	70.1	1.8	1.2	24.7
	Asheboro - - - - -	-	109	47	9.7	91.9	7.9	14.7	82.3	213.8	240.9	451.0	14.1	7.9	123.2
	Textile mill products - - - - -	-	31	24	4.6	42.3	3.6	6.9	27.1	62.5	116.5	177.8	(D)	4.4	42.1
	Women's hosiery, except socks - - - - -	-	13	11	1.7	12.5	1.6	2.8	10.0	18.1	19.4	37.3	0.8	(NA)	(NA)
	Asheville - - - - -	-	132	53	5.0	44.1	3.4	6.4	25.5	95.7	119.5	210.8	4.8	6.1	81.0
22 228	Belmont - - - - -	-	34	21	3.6	29.6	3.3	6.6	25.1	51.2	91.9	143.8	2.8	3.2	26.8
	Textile mill products - - - - -	-	21	18	3.4	27.0	3.2	6.4	24.2	48.1	86.5	135.6	2.4	3.2	25.4
	Yarn and thread mills - - - - -	-	12	12	2.2	17.9	2.1	4.2	16.1	32.1	61.3	94.2	2.0	(NA)	(NA)
	Bessemer City - - - - -	-	26	8	1.8	18.3	1.5	3.2	14.3	56.3	42.3	98.7	3.3	1.9	26.3
	Black Mountain - - - - -	-	11	5	0.9	8.0	0.7	1.4	5.5	14.0	9.9	23.1	0.5	(D)	(D)
22 225 2252	Boone - - - - -	-	32	8	2.0	15.9	1.7	3.3	12.2	31.8	18.6	50.7	1.1	2.0	21.5
	Burlington - - - - -	-	141	68	9.5	92.4	7.4	14.4	59.7	194.0	348.6	541.5	10.0	14.2	180.2
	Textile mill products - - - - -	-	63	40	7.0	59.5	6.1	11.8	46.2	136.3	309.2	446.4	8.3	10.2	124.6
	Knitting mills - - - - -	-	48	30	4.8	38.9	4.2	8.0	30.0	91.2	142.3	234.7	(D)	(NA)	(NA)
	Hosiery, n.e.c. - - - - -	-	23	15	2.3	17.2	2.1	4.0	14.7	43.1	45.7	89.7	0.9	(NA)	(NA)
22 225	Charlotte - - - - -	-	636	227	27.8	327.5	16.0	31.1	146.7	605.8	767.2	1 364.2	34.8	26.0	441.7
	Textile mill products - - - - -	-	30	14	1.4	12.0	1.2	2.2	9.5	27.8	35.0	63.2	3.7	2.4	32.5
	Knitting mills - - - - -	-	9	5	0.6	4.5	0.5	0.9	3.3	11.5	16.6	28.0	(D)	(NA)	(NA)
	Apparel and other textile products - - - - -	-	27	15	1.5	12.3	1.3	2.5	8.4	18.8	33.2	52.6	1.1	(NA)	(NA)
	Miscellaneous fabricated textile products - - - - -	E2	17	8	0.6	5.7	0.6	1.1	4.6	9.2	13.4	23.0	(D)	(NA)	(NA)
28 3079	Chemicals and allied products - - - - -	-	48	16	1.6	19.9	0.9	1.8	8.2	73.3	96.4	163.4	2.4	1.5	46.5
	Miscellaneous plastics products - - - - -	-	12	5	0.5	5.7	0.4	0.8	4.5	13.9	17.4	30.8	1.7	(NA)	(NA)
	Fabricated metal products - - - - -	-	55	21	1.4	17.0	1.1	2.1	11.2	29.6	37.3	66.5	2.2	1.5	21.8
	Fabricated structural metal products - - - - -	-	28	13	0.6	7.2	0.5	0.9	4.7	11.8	20.1	31.9	0.7	(NA)	(NA)
	Miscellaneous fabricated metal products - - - - -	-	10	4	0.5	6.9	0.4	0.8	4.8	14.1	12.1	25.7	(D)	(NA)	(NA)
355 3552	Special industry machinery - - - - -	-	28	14	1.2	13.1	0.8	1.5	7.1	20.3	21.8	43.9	(D)	(NA)	(NA)
	Textile machinery - - - - -	-	20	10	1.0	10.5	0.6	1.2	5.6	14.6	16.9	33.6	0.7	(NA)	(NA)
	Instruments and related products - - - - -	-	12	4	0.6	11.0	0.4	0.8	6.2	22.1	15.1	35.6	(D)	(NA)	(NA)
	Administrative and auxiliary - - - - -	-	42	21	3.2	56.2	-	-	-	-	-	-	-	(NA)	(NA)
	Cherryville - - - - -	-	20	11	1.5	10.0	1.3	2.4	8.4	16.1	24.1	41.5	0.7	2.2	25.2
22	Textile mill products - - - - -	-	8	6	1.1	7.9	1.0	1.9	6.9	12.8	21.3	35.5	0.7	1.9	23.5
	Clinton - - - - -	-	23	12	1.8	17.7	1.4	2.7	12.6	32.4	112.7	144.7	(D)	1.8	21.6
	Conover - - - - -	-	52	26	4.1	34.6	3.4	6.4	25.9	59.0	95.1	163.5	2.3	3.2	36.6
	Furniture and fixtures - - - - -	-	19	12	2.4	20.0	2.1	3.9	15.9	39.5	43.9	83.5	1.0	1.5	18.7
	Upholstered household furniture - - - - -	-	15	11	1.9	16.5	1.7	3.0	12.9	30.6	36.0	66.4	0.6	(NA)	(NA)
30	Rubber and miscellaneous plastics products - - - - -	-	7	5	0.7	6.2	0.6	1.1	4.3	15.3	21.4	36.1	0.8	(NA)	(NA)
	Dallas - - - - -	-	25	7	0.6	5.6	0.6	1.1	4.7	9.9	8.7	17.8	0.3	(D)	(D)
	Textile mill products - - - - -	-	3	3	0.5	3.6	0.4	0.8	3.3	6.6	6.7	12.6	0.2	(NA)	(NA)
	Dunn - - - - -	-	24	9	1.8	14.4	1.3	2.6	8.7	26.4	49.0	75.0	(D)	(D)	(D)
	Elizabeth City - - - - -	-	36	12	1.5	13.3	1.2	2.2	9.1	28.0	22.7	51.7	1.5	(D)	(D)
24	Lumber and wood products - - - - -	-	13	3	0.8	8.3	0.7	1.4	6.5	17.2	13.0	31.1	0.5	(NA)	(NA)
	Fairmont - - - - -	-	18	5	1.0	6.1	1.0	2.0	5.6	10.1	6.3	16.1	0.2	(D)	(D)
	Farmville - - - - -	-	12	5	1.3	11.2	1.0	2.2	8.0	28.2	49.4	74.1	(D)	1.4	15.3
	Forest City - - - - -	-	26	11	1.8	16.9	1.6	3.2	13.2	41.7	47.1	87.4	4.7	1.8	23.7
	Fuquay-Varina - - - - -	-	25	6	0.9	8.0	0.8	1.8	5.7	16.4	15.4	31.7	0.7	0.5	7.5
22 2257 228	Gastonia - - - - -	-	236	85	14.6	142.7	11.4	22.3	99.1	288.0	461.3	753.9	19.6	17.1	231.4
	Textile mill products - - - - -	-	38	24	7.3	63.3	6.4	12.2	50.6	129.2	301.8	432.0	6.5	8.6	103.0
	Circular knit fabric mills - - - - -	-	10	7	1.0	9.8	0.9	1.7	7.2	15.0	74.3	88.8	(D)	(NA)	(NA)
	Yarn and thread mills - - - - -	-	14	11	4.6	37.4	4.0	7.9	29.7	77.7	135.4	212.7	3.6	(NA)	(NA)
	Printing and publishing - - - - -	-	23	4	0.5	4.5	0.2	0.3	1.4	11.9	4.0	15.9	(D)	(NA)	(NA)
35 3552	Machinery, except electrical - - - - -	E1	87	22	1.5	17.5	1.0	2.2	10.4	33.0	22.6	55.1	2.0	2.6	54.5
	Textile machinery - - - - -	-	48	14	1.1	11.7	0.7	1.5	6.6	23.1	17.4	40.0	1.1	(NA)	(NA)
	Administrative and auxiliary - - - - -	-	4	4	0.5	6.8	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
22 225	Goldsboro -----	-	53	18	2.4	21.5	1.6	3.2	12.1	46.0	59.5	105.5	(D)	2.7	42.1
	Graham -----	-	40	17	2.5	19.9	2.3	4.3	16.1	33.0	49.3	82.2	2.2	2.7	25.8
	Textile mill products -----	-	21	12	2.3	17.6	2.1	3.9	14.8	29.2	43.9	73.0	1.7	2.6	24.9
	Knitting mills -----	E1	14	8	1.0	6.8	0.9	1.6	5.4	11.0	8.8	19.4	(D)	(NA)	(NA)
	Greensboro -----	-	341	147	23.7	293.5	16.5	33.0	160.5	657.4	762.4	1 412.2	40.2	27.3	474.5
20	Food and kindred products --	-	23	12	1.4	15.1	0.8	1.4	7.6	30.9	61.6	92.5	2.5	2.0	29.9
22 226	Textile mill products -----	-	31	19	7.5	77.1	6.3	13.8	60.3	181.2	297.3	471.0	15.2	8.6	100.0
	Textile finishing, except wool -----	-	6	5	0.7	7.2	0.4	1.0	4.5	9.4	27.1	37.1	(D)	(NA)	(NA)
275	Commercial printing -----	-	43	8	0.5	6.6	0.4	0.7	3.9	12.7	7.9	20.5	0.9	(NA)	(NA)
28	Chemicals and allied products -----	-	17	7	0.6	8.2	0.4	0.7	3.9	40.2	60.3	99.6	3.2	0.6	19.6
--	Administrative and auxiliary --	-	21	16	3.0	64.4	-	-	-	-	-	-	-	(NA)	(NA)
	Greenville -----	-	53	20	4.0	43.3	2.9	6.1	24.3	211.6	205.5	413.2	(D)	2.5	95.1
	Hamlet -----	-	18	8	0.6	4.4	0.5	1.0	3.2	10.0	10.8	20.7	0.5	(NA)	(NA)
	Henderson -----	-	44	27	5.0	37.7	4.4	8.3	30.5	69.7	100.7	171.9	(D)	4.6	52.8
	Hendersonville -----	-	39	9	0.7	7.1	0.5	0.9	3.6	16.7	14.4	30.9	0.5	1.0	9.6
	Hickory -----	-	251	123	15.0	133.7	12.6	23.8	97.1	268.2	335.2	599.5	13.2	17.0	196.8
22 225 2252	Textile mill products -----	-	87	43	4.5	35.3	4.0	7.6	28.4	91.1	127.3	217.5	2.5	6.5	74.4
	Knitting mills -----	E1	63	29	2.8	19.0	2.4	4.3	15.1	29.6	45.6	74.8	0.8	(NA)	(NA)
	Hosiery, n.e.c. -----	E1	41	19	2.0	13.5	1.8	3.2	10.8	22.8	37.5	59.3	0.5	(NA)	(NA)
24 242	Lumber and wood products --	E1	25	11	0.6	3.8	0.5	1.0	3.2	6.7	4.9	11.4	0.6	(NA)	(NA)
	Sawmills and planing mills --	E1	18	9	0.5	3.3	0.5	0.9	2.8	5.8	4.4	10.0	0.6	(NA)	(NA)
25 2512	Furniture and fixtures -----	-	60	43	7.4	66.8	6.3	11.7	50.5	109.0	118.2	225.6	6.1	(NA)	(NA)
	Upholstered household furniture -----	-	43	33	5.0	45.7	4.2	7.6	35.1	74.6	86.8	160.0	3.6	(NA)	(NA)
26 264	Paper and allied products ---	-	11	6	0.7	6.8	0.6	1.1	4.8	19.2	23.2	41.8	1.9	0.5	9.0
	Miscellaneous converted paper products -----	-	6	4	0.5	4.6	0.4	0.8	3.2	14.7	15.2	29.2	(D)	(NA)	(NA)
	High Point -----	-	359	177	22.4	200.4	18.0	33.9	134.8	390.0	448.1	837.9	17.9	23.6	295.6
22 225 2252	Textile mill products -----	-	34	24	3.9	30.0	3.5	6.7	24.3	52.6	69.7	123.2	4.7	5.5	54.1
	Knitting mills -----	-	19	15	2.6	17.7	2.4	4.4	14.4	30.4	29.8	60.9	(D)	(NA)	(NA)
	Hosiery, n.e.c. -----	-	11	10	1.8	13.1	1.7	3.2	10.5	23.1	23.8	47.3	0.5	(NA)	(NA)
25 251 2512	Furniture and fixtures -----	-	102	60	8.4	70.8	7.2	13.3	52.3	143.7	134.8	278.0	4.6	8.3	102.4
	Household furniture -----	-	84	50	5.6	46.0	4.8	8.7	34.3	94.6	92.0	186.4	2.6	(NA)	(NA)
	Upholstered household furniture -----	-	61	36	4.5	38.0	3.9	7.1	28.6	76.4	68.6	145.2	2.2	(NA)	(NA)
2521	Wood office furniture -----	-	9	7	2.3	21.0	2.0	3.8	15.3	41.7	33.5	75.1	1.7	(NA)	(NA)
27	Printing and publishing -----	E1	42	8	0.6	6.1	0.5	0.8	3.7	11.8	7.0	18.8	0.4	(NA)	(NA)
28	Chemicals and allied products -----	-	9	7	0.9	15.5	0.3	0.7	3.8	29.4	52.8	82.1	2.3	(NA)	(NA)
2851	Paints and allied products -----	-	4	4	0.7	13.0	0.2	0.5	2.8	23.2	41.4	64.6	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	18	11	0.9	7.7	0.8	1.4	5.3	14.8	22.1	37.0	1.1	0.6	7.7
3079	Miscellaneous plastics products -----	-	16	11	0.9	7.6	0.8	1.4	5.3	14.6	21.9	36.5	1.1	(NA)	(NA)
	Hudson -----	-	19	7	1.1	9.5	1.0	2.2	7.9	18.5	21.6	39.8	1.7	(NA)	(NA)
	Kernersville -----	-	37	12	2.3	26.3	1.9	3.6	19.9	50.6	71.7	119.8	2.2	2.2	27.9
	Kings Mountain -----	-	49	26	3.8	29.9	3.5	6.8	23.5	50.0	107.4	157.5	7.1	4.1	44.4
22 225 228	Textile mill products -----	-	26	18	3.2	24.7	3.0	5.9	20.0	38.7	93.3	132.7	6.8	3.9	41.6
	Knitting mills -----	E1	15	10	1.4	10.2	1.4	2.4	8.0	10.1	38.5	49.3	(D)	(NA)	(NA)
	Yarn and thread mills -----	-	6	5	1.0	8.1	1.0	1.9	7.3	16.7	24.2	41.0	3.3	(NA)	(NA)
	Laurinburg -----	-	28	11	3.0	31.3	2.6	5.6	26.3	64.3	62.0	126.7	2.2	1.4	15.2
	Lenoir -----	-	102	46	12.2	103.9	10.7	21.9	81.8	204.6	195.6	399.7	9.8	12.4	148.9
22	Textile mill products -----	-	4	4	0.5	3.3	0.4	0.8	2.8	6.8	6.0	12.9	(D)	0.5	6.9
24	Lumber and wood products --	-	36	10	0.7	6.3	0.6	1.3	4.9	10.7	12.0	22.5	1.6	0.9	8.6
25 251	Furniture and fixtures -----	-	27	17	9.6	78.5	8.8	18.1	67.0	164.9	145.9	310.1	6.6	9.2	119.3
	Household furniture -----	-	27	17	9.6	78.5	8.8	18.1	67.0	164.9	145.9	310.1	6.6	(NA)	(NA)
	Lexington -----	-	93	35	9.1	83.3	7.9	15.4	63.2	167.2	175.1	341.5	7.7	8.1	104.4
22	Textile mill products -----	-	5	3	1.6	13.9	1.5	3.0	12.8	28.1	37.3	65.0	(D)	1.6	14.9
25 251	Furniture and fixtures -----	-	14	11	4.5	41.9	3.8	7.5	30.1	80.5	63.5	144.3	2.9	4.2	48.7
	Household furniture -----	-	14	11	4.5	41.9	3.8	7.5	30.1	80.5	63.5	144.3	2.9	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry		1977											1972		
			E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Lincolnton -----	-	63	28	2.7	22.1	2.4	4.5	16.5	46.8	66.0	110.8	5.2	4.2	43.9	
22 2281	Textile mill products -----	-	24	16	1.6	12.7	1.5	2.8	10.4	25.3	38.7	63.2	(D)	2.7	28.7	
	Yarn mills, except wool --	-	11	9	1.0	7.9	0.9	1.8	6.7	15.3	25.2	40.3	(D)	(NA)	(NA)	
	Longview -----	-	32	23	2.6	20.7	2.1	4.1	15.2	41.0	41.2	81.5	2.0	1.0	12.0	
22 225	Textile mill products -----	-	13	11	1.5	11.5	1.4	2.6	9.8	24.2	21.1	45.0	0.8	0.6	7.2	
	Knitting mills -----	-	9	7	1.1	7.5	1.0	1.8	6.7	16.2	15.9	31.8	0.7	(NA)	(NA)	
25	Furniture and fixtures -----	-	5	4	0.5	3.7	0.4	0.8	2.7	6.9	5.1	11.9	(D)	(NA)	(NA)	
	Louisburg -----	-	37	8	1.1	7.6	1.1	1.8	6.7	15.6	20.5	33.6	(D)	0.9	7.0	
	Lowell -----	-	10	4	0.7	6.3	0.6	1.2	4.6	9.5	23.5	31.8	(D)	0.7	4.0	
	Lumberton -----	-	51	27	6.2	49.4	5.2	9.7	39.2	139.3	135.5	273.8	6.5	6.2	63.1	
22	Textile mill products -----	-	12	9	2.5	20.1	2.2	4.1	17.3	81.5	69.0	150.7	(D)	2.5	33.6	
23	Apparel and other textile products -----	E1	12	9	1.2	7.7	1.1	2.0	6.3	14.2	12.5	27.1	(D)	1.1	7.8	
	Marion -----	-	46	19	7.3	58.8	6.6	11.5	48.5	136.8	106.2	238.2	19.1	5.3	77.3	
23	Apparel and other textile products -----	-	3	3	0.5	3.0	0.5	0.8	2.7	4.0	1.8	5.6	(D)	(NA)	(NA)	
232	Men's and boys' furnishings -----	-	3	3	0.5	3.0	0.5	0.8	2.7	4.0	1.8	5.6	(D)	(NA)	(NA)	
	Mayodan -----	-	6	4	2.5	20.3	2.3	4.4	17.0	39.3	101.2	140.8	(D)	(D)	(D)	
239	Monroe -----	-	75	40	6.6	55.2	5.3	10.1	36.6	88.6	217.0	310.8	7.8	5.5	73.7	
	Miscellaneous fabricated textile products -----	-	6	5	0.9	5.8	0.8	1.5	4.2	11.1	20.2	31.3	(D)	(NA)	(NA)	
	Mooresville -----	-	30	12	4.4	36.2	3.9	7.5	29.4	66.1	87.7	153.4	(D)	4.7	36.5	
	Morehead City -----	-	23	5	0.7	5.3	0.6	1.0	3.9	8.2	12.6	21.2	0.4	(NA)	(NA)	
	Morganton -----	-	35	24	8.4	71.8	7.3	14.0	52.9	135.3	133.7	268.3	6.5	9.8	121.4	
	Mount Airy -----	-	81	32	8.5	60.7	7.7	14.9	48.4	121.3	124.6	238.6	5.5	8.7	84.7	
	Mount Holly -----	-	20	15	2.1	18.8	1.7	3.3	12.5	42.6	68.6	110.1	4.5	1.9	24.2	
22 2281	Textile mill products -----	-	11	11	1.7	13.4	1.5	3.1	11.1	36.6	59.6	95.4	(D)	1.6	21.5	
	Yarn mills, except wool --	-	7	7	1.1	9.0	1.0	2.0	7.6	20.6	26.3	47.4	0.8	(NA)	(NA)	
	Mount Olive -----	-	13	6	1.3	9.3	1.1	2.6	6.9	20.5	15.4	35.9	0.3	0.8	6.5	
	New Bern -----	-	60	23	1.9	22.5	1.5	2.7	16.1	58.1	93.2	148.8	11.4	2.1	29.5	
	Newton -----	-	70	34	5.2	39.9	4.6	8.5	32.2	76.7	105.2	179.5	3.4	5.1	57.2	
22 2252	Textile mill products -----	-	16	12	2.2	16.7	2.1	3.7	14.3	33.6	42.3	74.9	1.8	2.0	21.5	
	Hosiery, n.e.c. -----	-	6	6	0.8	4.8	0.8	1.3	4.0	7.8	11.0	18.8	0.2	(NA)	(NA)	
23	Apparel and other textile products -----	-	7	5	0.7	4.3	0.6	1.0	3.8	6.2	5.1	11.3	0.2	(NA)	(NA)	
25 251	Furniture and fixtures -----	-	14	8	1.6	12.0	1.5	2.6	10.1	24.4	31.2	54.7	1.0	1.6	21.2	
	Household furniture -----	-	14	8	1.6	12.0	1.5	2.6	10.1	24.4	31.2	54.7	1.0	(NA)	(NA)	
	Oxford -----	-	25	10	1.3	10.5	1.0	2.0	7.2	28.3	44.1	70.6	3.6	2.5	35.0	
	Raleigh -----	-	191	55	9.6	110.6	6.1	11.9	57.3	279.1	272.8	544.4	16.8	8.1	137.1	
27	Printing and publishing -----	-	53	9	1.1	11.7	0.6	1.0	5.0	28.0	16.2	44.2	1.1	(NA)	(NA)	
36	Electric and electronic equipment -----	-	19	8	2.4	27.8	1.6	3.0	14.6	74.7	32.7	102.4	6.5	1.3	23.2	
-	Administrative and auxiliary --	-	8	4	0.5	7.2	-	-	-	-	-	-	-	(NA)	(NA)	
	Red Springs -----	-	8	5	0.8	7.4	0.7	1.5	6.1	14.1	24.1	38.4	0.3	(D)	(D)	
	Rockingham -----	-	29	14	2.2	18.8	1.9	4.0	15.1	54.3	73.0	125.8	2.8	1.4	6.7	
	Rocky Mount -----	-	79	44	10.1	90.2	8.5	16.8	69.2	234.4	395.3	625.6	23.5	7.7	101.6	
20	Food and kindred products --	-	15	8	1.2	12.3	0.7	1.5	6.7	31.9	56.6	88.1	1.9	1.0	14.9	
21 2141	Tobacco products -----	-	5	4	0.7	4.3	0.6	0.9	3.0	2.0	62.9	66.5	0.6	0.8	6.0	
	Tobacco stemming and redrying -----	-	5	4	0.7	4.3	0.6	0.9	3.0	2.0	62.9	66.5	0.6	(NA)	(NA)	
22 2211	Textile mill products -----	-	13	11	3.3	28.6	2.9	5.9	23.2	64.8	141.3	204.5	6.4	(NA)	(NA)	
	Weaving mills, cotton ---	-	4	4	0.7	6.3	0.6	1.2	5.1	18.0	19.7	36.9	(D)	(NA)	(NA)	
23	Apparel and other textile products -----	-	6	4	1.0	6.9	1.0	1.7	5.9	13.8	33.8	48.1	(D)	1.3	14.4	
25	Furniture and fixtures -----	-	6	4	0.6	4.6	0.5	0.8	3.3	10.9	12.2	22.9	(D)	(NA)	(NA)	
34	Fabricated metal products ---	-	7	5	1.1	10.6	0.9	1.8	8.0	24.1	25.1	46.4	(D)	(NA)	(NA)	

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
25	Rutherfordton -----	-	28	11	1.9	15.2	1.6	3.4	11.6	29.4	31.5	61.2	1.7	1.5	20.4
	Sanford -----	-	87	29	5.1	43.1	4.4	8.3	32.3	98.7	98.9	201.4	9.9	5.5	81.2
	Furniture and fixtures -----	-	4	4	0.5	3.9	0.5	0.9	3.1	8.8	9.7	19.7	0.6	(NA)	(NA)
	Scotland Neck -----	-	12	4	0.6	3.6	0.5	1.0	3.2	7.2	8.2	15.3	0.3	(NA)	(NA)
20	Shelby -----	-	49	24	4.9	45.6	4.0	8.0	34.8	78.0	103.3	181.4	(D)	5.9	98.7
	Food and kindred products --	-	7	4	0.6	6.6	0.3	0.6	2.6	10.1	12.7	22.8	(D)	(NA)	(NA)
22	Textile mill products -----	-	11	8	3.5	32.2	3.1	6.2	27.4	55.1	66.1	121.3	10.0	4.3	51.1
22	Siler City -----	-	29	15	2.7	22.2	2.4	4.5	17.6	42.5	72.3	114.4	2.1	2.7	34.7
	Textile mill products -----	-	4	4	1.5	11.5	1.4	2.6	9.7	21.5	25.0	46.2	(D)	1.2	14.7
22	Smithfield -----	-	29	9	1.4	11.9	1.2	2.1	7.7	30.4	76.0	105.5	1.4	(D)	(D)
	Southern Pines -----	-	14	6	0.8	7.7	0.7	1.4	6.6	22.2	7.9	30.0	0.2	(NA)	(NA)
22	Spindale -----	-	10	7	3.1	27.7	2.7	5.2	21.9	51.5	45.5	97.3	5.3	2.8	71.4
	Textile mill products -----	-	5	5	3.0	26.8	2.6	5.1	21.4	49.6	43.4	93.3	(D)	(NA)	(NA)
22	Statesville -----	-	81	53	7.9	67.1	6.7	13.0	47.6	161.2	184.8	347.9	36.6	8.0	100.2
	Textile mill products -----	-	15	13	1.9	15.9	1.6	3.1	11.8	32.3	50.8	83.1	(D)	2.8	33.6
225	Knitting mills -----	E1	7	6	0.6	4.7	0.5	0.8	3.7	4.2	24.4	29.2	(D)	(NA)	(NA)
23	Apparel and other textile products -----	-	11	9	2.0	11.8	1.9	3.5	9.5	22.0	14.5	37.0	(D)	1.8	16.5
25	Furniture and fixtures -----	-	10	9	1.3	9.5	1.1	2.2	7.3	18.3	13.1	31.5	0.6	1.0	8.4
35	Machinery, except electrical --	-	8	4	0.6	7.2	0.5	0.9	4.4	22.3	9.4	31.6	(D)	(NA)	(NA)
225	Tarboro -----	-	25	16	4.2	40.5	3.5	7.1	28.6	130.8	103.8	235.4	7.1	4.2	57.0
	Knitting mills -----	-	4	4	0.8	7.0	0.7	1.4	5.4	12.4	15.6	28.5	0.4	(NA)	(NA)
225	Thomasville -----	-	114	44	8.5	74.3	6.9	13.3	52.2	131.5	126.5	255.7	6.1	8.1	89.4
	Knitting mills -----	-	6	4	0.9	6.1	0.8	1.5	5.4	11.5	10.7	22.3	0.1	(NA)	(NA)
25	Furniture and fixtures -----	-	25	8	3.5	33.1	3.1	6.2	26.7	64.0	33.4	95.2	(D)	(NA)	(NA)
22	Valdese -----	-	22	14	3.8	32.7	3.1	5.6	22.4	57.6	69.5	126.3	2.7	4.3	44.3
	Textile mill products -----	-	11	9	2.7	21.3	2.4	4.3	16.4	32.9	53.4	85.6	(D)	3.1	27.5
22	Wadesboro -----	-	32	10	2.3	19.7	2.0	4.1	14.2	39.1	50.5	89.2	4.0	2.1	26.7
	Textile mill products -----	-	6	5	2.0	17.9	1.8	3.7	12.8	35.4	45.7	80.9	3.8	(NA)	(NA)
22	Wake Forest -----	-	16	7	0.8	10.3	0.6	1.2	5.4	18.7	29.7	53.4	3.3	0.6	7.0
	Washington -----	-	36	14	3.1	30.6	2.5	5.2	22.1	59.8	83.3	143.0	7.3	2.5	18.0
22	Whiteville -----	-	29	12	1.8	17.1	1.5	3.1	12.6	54.8	72.7	127.5	(D)	1.7	27.0
	Wilmington -----	-	114	42	6.5	63.8	4.8	9.4	43.5	179.7	239.2	419.5	8.9	7.7	192.0
23	Apparel and other textile products -----	-	5	3	1.3	7.4	0.9	1.5	4.5	14.9	12.3	26.6	0.2	(NA)	(NA)
20	Wilson -----	-	54	34	6.4	55.3	5.1	9.7	47.5	191.5	300.9	485.9	10.9	5.4	82.2
	Food and kindred products --	-	11	7	0.6	7.0	0.3	0.6	3.9	14.6	80.8	97.0	1.1	0.9	19.2
205	Winston-Salem -----	-	205	91	33.3	479.3	22.0	42.6	267.2	1 865.2	1 390.4	3 240.6	80.5	32.3	1 062.0
	Bakery products -----	-	6	6	0.9	8.6	0.5	1.0	4.9	18.1	15.1	33.3	0.7	(NA)	(NA)
34	Fabricated metal products ---	-	24	13	3.3	33.9	1.9	3.7	20.9	64.8	104.1	169.3	2.8	1.0	15.1
344	Fabricated structural metal products -----	-	11	6	1.2	14.9	0.8	1.6	8.2	21.4	32.0	54.8	0.9	(NA)	(NA)
--	Administrative and auxiliary --	-	18	16	4.7	96.9	-	-	-	-	-	-	-	(NA)	(NA)

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

² Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

[illegible]

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977-Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ^a	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
BURKE COUNTY	154	3	-	58	8	29	20	1	7	3	-	3	1	5	-	2	6	5	-	-	2	1
1 TO 19 EMPLOYEES	79	-	23	2	2	22	8	-	6	-	-	-	-	4	-	2	6	3	-	-	-	-
20 TO 99 EMPLOYEES	38	-	19	4	4	6	3	1	1	2	-	2	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	23	2	-	8	2	-	7	-	-	-	-	-	1	-	-	-	-	2	-	-	1	1
CABARRUS COUNTY	111	5	-	50	10	8	-	2	8	6	-	2	2	1	-	3	9	-	2	1	-	2
1 TO 19 EMPLOYEES	58	2	-	16	4	8	-	-	5	5	-	2	2	1	-	1	8	-	2	1	-	1
20 TO 99 EMPLOYEES	30	3	-	14	4	-	-	2	3	1	-	-	-	-	-	2	1	-	-	-	-	-
100 TO 249 EMPLOYEES	12	-	-	11	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	11	-	-	9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
CALDWELL COUNTY	162	2	-	22	5	47	38	8	7	6	-	3	-	7	-	3	6	-	-	-	4	4
1 TO 19 EMPLOYEES	79	1	-	2	1	34	12	3	6	1	-	1	-	6	-	2	5	-	-	-	3	2
20 TO 99 EMPLOYEES	45	1	-	9	3	10	9	3	1	5	-	1	-	2	-	1	1	-	-	-	1	1
100 TO 249 EMPLOYEES	20	-	-	10	1	5	2	2	-	-	-	1	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	18	-	-	1	-	-	15	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
CAMDEN COUNTY	8	-	-	-	-	7	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	8	-	-	-	-	7	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
CARTERET COUNTY	58	17	-	-	3	8	1	1	3	-	3	-	-	2	-	1	3	-	15	-	1	-
1 TO 19 EMPLOYEES	45	13	-	-	1	6	-	-	2	-	2	-	-	-	-	-	-	-	15	-	-	-
20 TO 99 EMPLOYEES	8	4	-	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CASWELL COUNTY	8	1	-	1	1	-	-	-	-	1	-	-	-	1	-	-	1	1	-	1	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CATAWBA COUNTY	560	9	-	161	33	71	139	16	23	5	1	26	2	18	4	8	24	3	3	2	7	5
1 TO 19 EMPLOYEES	288	5	-	76	17	48	48	6	18	5	1	7	1	15	2	6	21	2	1	2	7	2
20 TO 99 EMPLOYEES	164	1	-	50	7	22	48	7	4	-	-	15	1	2	1	1	2	1	1	-	-	-
100 TO 249 EMPLOYEES	75	3	-	27	7	1	24	2	1	-	-	3	-	1	1	1	1	1	1	-	-	-
250 EMPLOYEES AND OVER	33	-	-	8	2	-	19	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHATHAM COUNTY	87	12	-	8	2	40	4	-	5	2	-	1	-	4	-	2	4	1	1	1	-	1
1 TO 19 EMPLOYEES	56	4	-	1	33	5	1	-	-	1	-	1	-	2	-	2	4	1	1	-	-	-
20 TO 99 EMPLOYEES	14	9	-	4	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	8	3	-	3	1	1	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
CHEROKEE COUNTY	33	1	-	2	3	16	1	-	3	-	-	-	-	3	-	-	1	1	1	1	-	-
1 TO 19 EMPLOYEES	21	1	-	1	1	13	-	-	3	-	-	-	-	2	-	-	1	1	1	1	-	-
20 TO 99 EMPLOYEES	7	-	-	2	2	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHOWAN COUNTY	31	8	-	3	-	8	-	-	2	-	-	-	-	-	-	2	5	-	2	-	1	-
1 TO 19 EMPLOYEES	18	7	-	-	-	4	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-
20 TO 99 EMPLOYEES	7	-	-	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLAY COUNTY	11	-	-	1	2	4	-	-	-	-	-	-	-	-	-	1	-	1	-	-	1	-
1 TO 19 EMPLOYEES	7	-	-	1	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLEVELAND COUNTY	167	13	-	58	9	18	3	3	12	3	-	3	-	12	2	7	16	2	1	1	2	2
1 TO 19 EMPLOYEES	93	5	-	21	4	15	2	2	8	2	-	3	-	6	1	5	15	1	-	-	1	1
20 TO 99 EMPLOYEES	39	5	-	11	4	3	2	1	4	-	-	-	-	5	1	2	1	-	-	-	-	-
100 TO 249 EMPLOYEES	15	-	-	12	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	20	1	-	14	1	-	-	-	-	-	-	-	-	1	-	-	-	1	1	-	-	-
COLUMBUS COUNTY	93	4	-	3	12	47	1	1	3	5	-	-	-	4	-	4	5	1	1	3	-	-
1 TO 19 EMPLOYEES	65	4	-	1	4	40	1	-	2	3	-	-	-	3	-	3	4	1	-	-	-	-
20 TO 99 EMPLOYEES	18	-	-	1	2	2	-	-	1	-	-	-	-	1	-	1	1	-	-	2	1	-
100 TO 249 EMPLOYEES	4	-	-	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
250 EMPLOYEES AND OVER	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

State, county, and employee size class ¹		Establishments in major industry groups																				All es- tablish- ments	
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
CRAVEN COUNTY		6	-	-	-	8	51	-	2	9	3	1	1	-	3	4	3	-	4	-	-	-	2
1 TO 19 EMPLOYEES		6	-	-	-	8	51	-	2	9	3	1	1	-	3	4	3	-	4	-	-	-	2
20 TO 99 EMPLOYEES		3	-	-	-	5	42	-	-	7	2	-	-	-	2	2	1	-	2	-	-	-	2
100 TO 249 EMPLOYEES		3	-	-	-	1	8	-	-	2	-	-	-	-	-	2	1	-	1	-	-	-	-
250 EMPLOYEES AND OVER		-	-	-	-	-	1	-	1	-	1	-	-	-	-	-	1	-	-	-	-	-	-
CUMBERLAND COUNTY		16	-	7	13	35	7	2	13	6	-	2	-	7	1	3	15	-	3	2	6	3	3
1 TO 19 EMPLOYEES		16	-	7	13	35	7	2	13	6	-	2	-	7	1	3	15	-	3	2	6	3	3
20 TO 99 EMPLOYEES		5	-	-	5	25	4	2	12	4	-	-	-	3	1	-	14	-	2	2	2	2	2
100 TO 249 EMPLOYEES		3	-	-	5	7	3	-	-	1	-	-	-	4	-	2	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER		10	-	2	2	-	-	-	1	1	-	1	-	-	-	1	1	-	1	-	-	-	-
CURRITUCK COUNTY		6	-	-	-	1	3	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES		6	-	-	-	1	3	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES		1	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DARE COUNTY		4	-	-	-	1	2	-	-	1	1	-	-	1	-	-	-	-	5	-	2	-	-
1 TO 19 EMPLOYEES		4	-	-	-	1	2	-	-	1	1	-	-	1	-	-	-	-	5	-	2	-	-
20 TO 99 EMPLOYEES		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DAVIDSON COUNTY		10	-	28	14	90	52	4	14	1	-	10	2	8	1	9	23	3	2	1	5	6	6
1 TO 19 EMPLOYEES		10	-	28	14	90	52	4	14	1	-	10	2	8	1	9	23	3	2	1	5	6	6
20 TO 99 EMPLOYEES		6	-	9	9	71	22	1	19	1	-	8	3	3	1	3	17	1	2	1	1	3	3
100 TO 249 EMPLOYEES		2	-	9	5	17	10	1	5	-	-	1	1	-	-	3	5	1	-	-	-	-	-
250 EMPLOYEES AND OVER		21	-	7	1	2	7	-	-	-	-	1	-	1	-	2	1	1	-	-	-	-	-
DAVIE COUNTY		4	1	2	9	24	3	-	1	-	-	-	-	1	-	1	3	-	-	-	1	1	1
1 TO 19 EMPLOYEES		4	1	2	9	24	3	-	1	-	-	-	-	1	-	1	3	-	-	-	1	1	1
20 TO 99 EMPLOYEES		3	-	-	3	20	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES		1	-	-	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER		2	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUPLIN COUNTY		6	-	6	7	24	2	-	1	2	2	1	2	3	-	-	3	-	-	1	2	-	-
1 TO 19 EMPLOYEES		6	-	6	7	24	2	-	1	2	2	1	2	3	-	-	3	-	-	1	2	-	-
20 TO 99 EMPLOYEES		1	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES		2	-	2	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER		4	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DURHAM COUNTY		12	3	4	4	15	4	2	32	7	-	4	-	11	-	8	14	5	3	4	2	12	12
1 TO 19 EMPLOYEES		12	3	4	4	15	4	2	32	7	-	4	-	11	-	8	14	5	3	4	2	12	12
20 TO 99 EMPLOYEES		6	-	2	2	14	2	-	28	7	-	3	-	6	-	5	6	3	2	1	2	2	2
100 TO 249 EMPLOYEES		3	-	1	1	1	2	-	2	-	-	1	-	1	-	3	4	1	1	1	1	4	4
250 EMPLOYEES AND OVER		12	1	2	1	-	-	-	1	-	-	-	-	-	-	-	2	1	-	1	-	2	2
EDGEcombe COUNTY		5	1	12	3	4	4	1	4	2	-	2	-	3	1	3	6	1	2	-	3	2	2
1 TO 19 EMPLOYEES		5	1	12	3	4	4	1	4	2	-	2	-	3	1	3	6	1	2	-	3	2	2
20 TO 99 EMPLOYEES		2	-	1	1	1	2	-	2	-	-	1	-	1	-	2	4	-	-	-	1	1	1
100 TO 249 EMPLOYEES		8	-	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER		9	-	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FORSYTH COUNTY		28	6	14	13	19	15	6	43	9	-	5	1	15	5	32	31	9	6	5	12	18	18
1 TO 19 EMPLOYEES		28	6	14	13	19	15	6	43	9	-	5	1	15	5	32	31	9	6	5	12	18	18
20 TO 99 EMPLOYEES		14	2	6	10	15	7	2	35	4	-	4	1	8	2	14	22	4	5	4	10	2	2
100 TO 249 EMPLOYEES		7	1	1	1	4	4	1	6	5	-	1	-	6	1	9	5	2	1	1	8	8	8
250 EMPLOYEES AND OVER		3	2	2	5	-	1	3	2	-	-	-	-	1	1	4	2	-	-	1	1	4	4
FRANKLIN COUNTY		58	-	3	7	39	4	-	1	-	-	-	-	1	-	-	1	-	-	1	1	-	-
1 TO 19 EMPLOYEES		58	-	3	7	39	4	-	1	-	-	-	-	1	-	-	1	-	-	1	1	-	-
20 TO 99 EMPLOYEES		43	-	-	3	35	1	-	1	-	-	-	-	1	-	-	1	-	-	1	1	-	-
100 TO 249 EMPLOYEES		7	-	-	-	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER		2	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GASTON COUNTY		10	-	107	20	13	1	5	34	12	-	14	2	12	5	32	129	4	5	1	8	9	9
1 TO 19 EMPLOYEES		10	-	107	20	13	1	5	34	12	-	14	2	12	5	32	129	4	5	1	8	9	9
20 TO 99 EMPLOYEES		6	-	23	9	9	1	3	28	6	-	8	1	8	3	27	98	3	3	1	4	4	4
100 TO 249 EMPLOYEES		2	-	20	8	3	1	1	3	3	-	3	1	3	2	1	24	1	1	1	2	4	4
250 EMPLOYEES AND OVER		38	-	30	2	1	-	1	3	1	-	3	-	1	-	1	3	-	1	1	1	5	5
GATES COUNTY		18	-	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES		18	-	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES		2	-	-	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 -- Con.

(Major groups descriptions are: 20---food and kindred products; 21---tobacco manufactures; 22---textile mill products; 23---apparel and other textile products; 24---lumber and wood products; 25---furniture and fixtures; 26---paper and allied products; 27---printing and publishing; 28---chemicals and allied products; 29---petroleum and coal products; 30---rubber and miscellaneous plastics products; 31---leather and leather products; 32---stone, clay, and glass products; 33---primary metal industries; 34---fabricated metal products; 35---machinery, except electrical; 36---electronic and electric equipment; 37---transportation equipment; 38---instruments and related products; 39---miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
GRAHAM COUNTY	11	-	-	-	1	7	1	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-
1 TO 19 EMPLOYEES	8	-	-	-	1	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRANVILLE COUNTY	47	1	1	11	6	15	-	-	3	1	2	-	-	-	-	2	1	2	-	-	2	-
1 TO 19 EMPLOYEES	24	-	-	5	3	12	-	-	3	1	-	-	-	-	-	1	1	-	-	-	1	-
20 TO 99 EMPLOYEES	12	-	-	5	2	13	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-
100 TO 249 EMPLOYEES	8	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GREENE COUNTY	10	2	-	1	2	1	1	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	-	-	1	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GUILFORD COUNTY	836	38	1	79	32	73	125	22	114	34	6	34	3	29	12	58	78	18	8	4	32	36
1 TO 19 EMPLOYEES	483	18	-	28	15	50	57	7	91	15	6	17	1	16	5	31	59	12	8	4	4	8
20 TO 99 EMPLOYEES	247	11	-	22	19	21	47	9	17	14	-	14	2	12	5	18	19	3	5	4	23	17
100 TO 249 EMPLOYEES	83	4	-	16	6	6	13	6	5	4	-	2	-	1	2	9	4	3	1	2	2	5
250 EMPLOYEES AND OVER	43	2	1	13	2	1	8	-	1	1	-	1	-	-	-	-	1	3	-	-	2	6
HALIFAX COUNTY	96	4	-	8	7	52	-	2	3	3	-	2	-	4	-	2	2	1	4	4	2	3
1 TO 19 EMPLOYEES	61	1	-	1	2	45	-	-	1	-	-	-	-	1	-	1	1	1	4	4	2	2
20 TO 99 EMPLOYEES	19	1	-	2	1	6	-	1	1	-	-	-	-	2	-	1	-	1	4	4	2	2
100 TO 249 EMPLOYEES	10	-	-	4	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HARNETT COUNTY	45	5	-	2	7	8	3	-	4	4	-	-	-	5	-	-	5	3	2	2	1	-
1 TO 19 EMPLOYEES	28	2	-	1	1	1	1	-	-	-	-	-	-	4	-	-	5	1	2	2	1	-
20 TO 99 EMPLOYEES	5	2	-	1	-	1	1	-	-	-	-	-	-	1	-	-	-	1	1	1	1	-
100 TO 249 EMPLOYEES	7	1	-	3	2	2	-	-	-	-	-	-	-	4	-	-	-	1	1	1	1	-
250 EMPLOYEES AND OVER	5	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-
HAYWOOD COUNTY	33	1	-	1	-	7	2	2	5	3	3	3	1	3	3	1	1	1	1	1	1	-
1 TO 19 EMPLOYEES	20	-	-	1	-	2	1	-	4	1	-	-	-	1	2	-	1	2	2	2	2	-
20 TO 99 EMPLOYEES	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HENDERSON COUNTY	93	7	-	9	12	11	1	4	9	2	1	1	1	1	6	8	15	2	1	1	2	2
1 TO 19 EMPLOYEES	63	6	-	6	11	1	-	2	7	2	-	-	-	-	4	6	12	3	1	1	2	2
20 TO 99 EMPLOYEES	21	1	-	1	1	1	-	1	2	-	-	-	-	-	1	2	3	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HERTFORD COUNTY	47	3	-	1	3	22	-	-	2	1	1	1	-	-	2	2	6	-	-	-	-	-
1 TO 19 EMPLOYEES	34	2	-	1	1	18	-	-	1	1	-	-	-	-	1	2	6	-	-	-	-	-
20 TO 99 EMPLOYEES	5	1	-	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	2	1	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hoke County	11	2	-	4	-	2	-	-	2	1	-	-	-	-	1	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HYDE COUNTY	8	4	-	-	-	2	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IREDELL COUNTY	184	14	-	29	16	24	19	5	8	2	-	7	5	12	1	12	27	2	2	3	1	1
1 TO 19 EMPLOYEES	90	7	-	11	4	4	10	2	7	1	2	-	2	5	-	3	21	2	1	2	2	1
20 TO 99 EMPLOYEES	54	7	-	3	4	1	6	3	1	-	-	-	-	-	-	1	3	1	1	1	1	1
100 TO 249 EMPLOYEES	20	-	-	8	7	1	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JACKSON COUNTY	17	1	-	-	3	8	-	-	1	-	-	-	1	1	-	-	-	-	1	1	1	1
1 TO 19 EMPLOYEES	11	1	-	-	-	6	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				38	39	CAO's
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37					
JOHNSTON COUNTY	107	15	1	6	6	37	3	-	10	4	1	1	-	3	-	2	5	9	2	1	1	1	-	
1 TO 19 EMPLOYEES	75	11	-	1	1	31	2	-	9	2	1	-	-	3	-	2	5	4	2	-	-	-	-	
20 TO 99 EMPLOYEES	15	-	1	1	1	5	1	-	1	1	1	-	-	-	-	-	1	1	1	1	-	-		
100 TO 249 EMPLOYEES	9	1	-	1	2	1	1	-	-	1	-	-	-	-	-	-	-	2	2	-	-	-	-	
250 EMPLOYEES AND OVER	8	-	1	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JONES COUNTY	14	-	-	3	3	10	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	12	-	-	1	1	10	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LEE COUNTY	100	9	1	9	7	28	4	-	4	2	1	1	1	5	1	7	15	2	1	-	3	3	-	
1 TO 19 EMPLOYEES	63	6	1	1	3	27	2	-	3	1	-	-	-	2	1	5	9	1	-	-	-	-	-	
20 TO 99 EMPLOYEES	15	3	-	1	1	1	1	-	1	-	-	-	-	2	1	2	1	4	-	-	-	-	-	
100 TO 249 EMPLOYEES	13	-	-	4	1	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	
250 EMPLOYEES AND OVER	19	-	-	1	2	1	-	-	-	1	-	-	-	-	-	-	1	1	1	1	-	-	-	
LENOIR COUNTY	80	11	1	7	13	16	-	2	6	3	-	1	1	4	-	5	3	2	2	1	1	1	1	
1 TO 19 EMPLOYEES	41	6	-	1	6	14	-	-	5	1	-	-	-	2	-	2	2	2	2	1	1	1	1	
20 TO 99 EMPLOYEES	24	4	-	2	6	2	-	2	1	2	-	-	-	2	-	1	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	8	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	7	1	1	1	3	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
LINCOLN COUNTY	102	5	-	36	5	17	7	1	4	1	-	-	-	3	1	3	9	1	3	1	3	3	3	
1 TO 19 EMPLOYEES	60	4	-	13	1	15	2	1	3	-	-	-	-	-	-	-	8	1	2	1	1	1	1	
20 TO 99 EMPLOYEES	22	1	-	10	4	1	1	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	14	-	-	9	1	1	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	6	-	-	4	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MC DOWELL COUNTY	66	3	-	17	4	15	5	3	4	1	-	1	-	3	1	1	4	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	35	3	-	5	1	13	1	2	3	1	-	-	-	3	1	1	3	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	14	-	-	6	1	2	1	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	3	-	-	6	1	1	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	14	-	-	6	2	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
MACON COUNTY	33	2	-	-	3	11	1	-	3	1	-	-	-	6	1	1	2	1	1	1	3	3	3	
1 TO 19 EMPLOYEES	26	2	-	-	1	10	1	-	3	-	-	-	-	5	1	1	1	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	3	-	-	-	1	1	1	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	4	-	-	-	2	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
MADISON COUNTY	10	1	-	-	1	4	-	-	1	-	-	-	1	-	-	-	-	1	1	1	-	-	-	
1 TO 19 EMPLOYEES	7	1	-	-	1	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MARTIN COUNTY	37	6	2	1	3	14	1	-	2	-	-	-	-	1	2	2	1	1	-	-	1	1	1	
1 TO 19 EMPLOYEES	25	5	-	2	-	12	1	-	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	4	-	-	2	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	6	1	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	2	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MECKLENBURG COUNTY	852	44	-	47	39	25	24	28	154	61	1	29	2	26	12	86	130	30	16	16	32	50	50	
1 TO 19 EMPLOYEES	543	18	-	25	19	20	15	9	123	38	1	13	2	19	4	54	91	20	8	8	30	25	25	
20 TO 99 EMPLOYEES	216	17	-	13	12	4	7	12	25	19	-	7	1	5	6	26	26	8	6	5	2	16	16	
100 TO 249 EMPLOYEES	63	7	-	6	4	2	2	6	4	2	-	6	-	1	1	6	7	1	1	1	1	1	1	
250 EMPLOYEES AND OVER	30	2	-	3	1	1	-	1	2	2	-	3	1	1	1	-	6	1	1	1	2	-	-	
MITCHELL COUNTY	26	1	-	2	1	8	3	1	2	1	-	1	1	5	-	-	2	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	19	1	-	1	7	2	-	-	2	-	-	1	1	1	3	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	4	1	-	1	1	1	-	-	-	-	-	1	-	2	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	2	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MONTGOMERY COUNTY	100	3	-	22	12	43	6	-	3	1	-	1	1	2	1	-	4	-	-	1	-	1	1	
1 TO 19 EMPLOYEES	63	3	-	5	7	41	4	-	1	1	-	1	-	1	-	-	4	-	-	1	-	1	1	
20 TO 99 EMPLOYEES	15	-	-	5	1	1	1	-	1	1	-	1	-	1	-	-	4	-	-	1	-	1	1	
100 TO 249 EMPLOYEES	17	-	-	8	3	2	2	-	2	-	-	1	-	1	-	-	-	-	-	1	-	-	-	
250 EMPLOYEES AND OVER	5	-	-	4	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MOORE COUNTY	77	7	1	7	6	23	4	-	10	3	-	1	-	3	-	3	4	1	-	1	1	2	2	
1 TO 19 EMPLOYEES	50	5	-	2	2	22	1	-	8	3	-	1	-	3	-	2	2	-	-	1	1	1	1	
20 TO 99 EMPLOYEES	13	1	-	2	1	1	1	-	2	1	-	1	-	-	-	1	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	9	1	-	1	1	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	5	-	-	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
NASH COUNTY.	114	15	4	13	22	23	5	-	5	1	1	2	-	4	1	7	6	3	-	-	-	2
1 TO 19 EMPLOYEES.	51	9	1	2	4	15	-	-	4	-	-	-	-	4	1	2	6	1	-	-	1	-
20 TO 99 EMPLOYEES.	28	3	3	7	6	4	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
100 TO 249 EMPLOYEES.	19	2	2	1	8	2	-	-	1	-	-	2	-	-	-	1	-	-	-	-	1	-
250 EMPLOYEES AND OVER.	16	1	1	7	3	-	1	-	-	1	-	-	-	-	-	2	-	-	-	-	-	-
NEW HANOVER COUNTY.	135	13	-	4	6	23	1	2	16	18	3	1	-	10	1	12	7	3	7	2	2	4
1 TO 19 EMPLOYEES.	79	7	-	1	2	17	1	-	12	6	2	1	-	8	1	6	3	1	6	2	2	1
20 TO 99 EMPLOYEES.	36	4	-	2	1	5	-	-	1	8	1	-	-	1	-	3	3	-	1	-	-	3
100 TO 249 EMPLOYEES.	9	2	-	-	1	1	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER.	11	-	-	1	3	-	-	-	-	-	-	-	-	-	-	3	1	1	-	-	-	-
NORTHAMPTON COUNTY.	40	2	-	-	4	24	-	-	-	4	-	-	-	-	-	-	1	-	-	-	5	-
1 TO 19 EMPLOYEES.	22	2	-	-	-	17	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	13	-	-	-	2	5	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-
100 TO 249 EMPLOYEES.	4	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
ONSLOW COUNTY.	40	4	-	-	6	13	-	1	7	-	-	-	-	1	-	-	2	1	2	1	2	-
1 TO 19 EMPLOYEES.	28	3	-	-	1	11	-	-	6	-	-	-	-	1	-	-	2	1	1	1	2	-
20 TO 99 EMPLOYEES.	6	-	-	-	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	4	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ORANGE COUNTY.	58	1	-	7	2	13	3	1	16	2	-	-	-	5	-	-	3	-	1	1	3	-
1 TO 19 EMPLOYEES.	45	1	-	1	1	13	2	-	12	2	-	-	-	5	-	-	3	-	1	1	3	-
20 TO 99 EMPLOYEES.	7	-	-	3	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	4	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	2	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PAMLICO COUNTY.	18	15	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	14	1	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PASQUOTANK COUNTY.	36	4	-	1	2	13	-	1	5	1	-	-	-	2	1	-	3	-	3	-	-	-
1 TO 19 EMPLOYEES.	24	1	-	-	-	10	-	-	4	1	-	-	-	2	1	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	8	3	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	3	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PENDER COUNTY.	22	3	-	1	1	10	-	-	2	-	-	1	-	-	-	-	-	1	1	1	2	-
1 TO 19 EMPLOYEES.	16	2	-	-	8	-	-	-	2	-	-	1	-	-	-	-	-	1	1	1	1	-
20 TO 99 EMPLOYEES.	5	1	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PERQUIMANS COUNTY.	14	-	-	-	1	9	-	-	-	1	-	-	-	1	-	-	1	-	1	-	-	-
1 TO 19 EMPLOYEES.	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PERSON COUNTY.	34	2	-	5	2	8	-	-	3	2	-	-	-	2	1	1	4	2	1	-	1	-
1 TO 19 EMPLOYEES.	21	1	-	1	1	7	-	-	3	1	-	-	-	2	1	1	3	1	-	-	-	-
20 TO 99 EMPLOYEES.	5	1	-	1	1	1	-	-	-	1	-	-	-	-	-	-	1	1	-	-	-	-
100 TO 249 EMPLOYEES.	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	4	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PITT COUNTY.	92	8	2	8	9	11	-	3	17	7	-	1	1	3	-	2	12	1	5	-	2	-
1 TO 19 EMPLOYEES.	56	3	-	3	2	10	-	2	15	5	-	1	1	2	-	2*	8	-	2	-	1	-
20 TO 99 EMPLOYEES.	16	4	-	3	1	1	-	1	2	1	-	-	-	1	-	-	1	-	1	-	1	-
100 TO 249 EMPLOYEES.	10	1	-	3	5	-	-	-	-	-	-	-	-	-	-	-	2	1	2	-	-	-
250 EMPLOYEES AND OVER.	10	1	1	3	1	-	-	-	-	1	-	-	-	-	-	-	1	1	-	-	1	-
POLK COUNTY.	26	-	-	10	-	9	-	-	5	-	-	-	-	1	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES.	19	-	-	5	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES.	6	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER.	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RANDOLPH COUNTY.	274	11	-	57	26	70	38	3	12	-	1	9	4	10	2	8	13	2	-	1	5	2
1 TO 19 EMPLOYEES.	163	7	-	14	11	60	19	1	11	-	1	3	2	9	2	4	13	-	-	1	4	1
20 TO 99 EMPLOYEES.	60	2	-	22	8	9	7	-	1	-	-	2	1	1	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES.	29	1	-	9	6	-	9	2	-	-	-	2	1	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER.	22	1	-	12	1	1	3	-	-	-	-	1	1	-	-	-	-	2	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 — Con.

(Major group descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	*All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
RICHMOND COUNTY	64	9	-	11	6	14	1	5	3	2	-	-	1	2	1	4	1	-	3	-	1	-
1 TO 19 EMPLOYEES	30	5	-	3	2	9	1	1	1	2	-	-	-	1	1	2	1	-	1	-	1	-
20 TO 99 EMPLOYEES	19	3	-	3	1	5	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	8	-	-	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	7	1	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
ROBESON COUNTY	126	10	-	21	20	31	5	4	11	2	-	4	-	3	-	2	6	1	4	1	-	1
1 TO 19 EMPLOYEES	98	6	-	3	4	27	2	3	10	1	-	2	-	3	-	-	5	-	3	1	-	1
20 TO 99 EMPLOYEES	29	1	-	7	6	4	3	3	1	1	-	1	-	-	-	1	1	1	1	-	-	-
100 TO 249 EMPLOYEES	16	2	-	3	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	13	1	-	6	2	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-
ROCKINGHAM COUNTY	103	6	3	25	10	14	4	1	12	-	1	1	-	8	2	6	7	1	1	-	-	1
1 TO 19 EMPLOYEES	49	5	1	3	1	12	3	1	8	-	-	-	-	5	-	3	6	-	-	-	-	-
20 TO 99 EMPLOYEES	20	1	-	6	4	-	-	-	1	-	-	-	-	2	1	3	1	-	1	-	-	-
100 TO 249 EMPLOYEES	9	-	-	4	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	25	-	1	16	5	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
ROWAN COUNTY	162	17	-	18	14	22	13	2	9	7	1	5	-	17	1	11	13	2	2	-	-	3
1 TO 19 EMPLOYEES	95	10	-	6	5	18	7	4	1	7	3	1	4	-	9	6	9	1	1	-	-	5
20 TO 99 EMPLOYEES	38	4	-	3	5	3	4	1	2	1	-	-	-	8	1	4	3	-	-	-	-	5
100 TO 249 EMPLOYEES	16	2	-	2	2	-	2	1	-	2	-	-	-	-	-	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	13	1	-	7	2	-	-	-	-	1	-	1	-	-	-	-	-	1	-	-	-	-
RUTHERFORD COUNTY	85	4	-	25	10	14	3	-	7	2	-	7	-	4	-	1	3	1	1	-	-	2
1 TO 19 EMPLOYEES	45	3	-	9	2	11	-	-	7	1	-	5	-	4	-	1	3	1	1	-	-	2
20 TO 99 EMPLOYEES	18	1	-	4	4	3	-	-	-	1	-	5	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	10	1	-	4	4	-	3	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	12	-	-	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAMPSON COUNTY	73	7	-	2	10	31	3	-	4	1	-	2	-	5	1	3	3	1	-	-	-	-
1 TO 19 EMPLOYEES	44	2	-	-	3	25	2	-	3	1	-	1	-	2	1	2	2	-	-	-	-	-
20 TO 99 EMPLOYEES	18	4	-	1	5	6	-	-	1	-	-	1	-	3	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	7	1	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
SCOTLAND COUNTY	42	3	-	8	2	6	-	-	4	1	-	2	-	3	2	2	3	2	-	2	-	2
1 TO 19 EMPLOYEES	19	9	-	1	1	3	-	-	3	1	-	1	-	1	1	1	3	2	-	-	-	2
20 TO 99 EMPLOYEES	10	1	-	1	1	-	-	-	1	-	-	1	-	1	1	-	-	-	-	-	-	2
100 TO 249 EMPLOYEES	5	-	-	6	1	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	10	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STANLY COUNTY	99	8	-	22	14	21	6	1	7	2	-	-	1	6	1	4	1	1	2	-	2	-
1 TO 19 EMPLOYEES	56	7	-	4	6	16	2	1	6	2	-	-	1	2	-	4	1	-	2	-	2	-
20 TO 99 EMPLOYEES	21	1	-	5	3	4	1	-	1	-	-	-	-	4	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	11	-	-	5	4	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	11	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOKES COUNTY	25	2	1	3	2	4	1	-	1	-	-	-	-	1	1	3	-	1	2	-	1	-
1 TO 19 EMPLOYEES	18	4	-	3	1	4	1	-	1	-	-	-	-	1	1	2	-	1	1	-	1	-
20 TO 99 EMPLOYEES	4	-	-	2	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SURRY COUNTY	118	5	-	31	11	21	4	2	11	3	-	5	-	15	-	2	2	2	-	-	2	2
1 TO 19 EMPLOYEES	68	4	-	11	4	20	1	1	8	3	-	1	-	11	-	-	-	-	-	-	2	1
20 TO 99 EMPLOYEES	24	1	-	9	3	1	1	1	3	-	-	3	-	4	-	1	1	-	-	-	1	1
100 TO 249 EMPLOYEES	11	-	-	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	15	-	-	7	3	-	3	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
SWAIN COUNTY	14	4	-	2	3	2	1	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-
1 TO 19 EMPLOYEES	7	3	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRANSYLVANIA COUNTY	18	1	-	1	3	4	-	1	2	-	-	1	-	-	-	1	3	-	-	1	-	-
1 TO 19 EMPLOYEES	11	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20---food and kindred products; 21---tobacco manufactures; 22---textile mill products; 23---apparel and other textile products; 24---lumber and wood products; 25---furniture and fixtures; 26---paper and allied products; 27---printing and publishing; 28---chemicals and allied products; 29---petroleum and coal products; 30---rubber and miscellaneous plastics products; 31---leather and leather products; 32---stone, clay, and glass products; 33---primary metal industries; 34---fabricated metal products; 35---machinery, except electrical; 36---electric and electronic equipment; 37---transportation equipment; 38---instruments and related products; 39---miscellaneous manufacturing industries. For explanation of terms, see appendix B)

[illegible]

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

¹Only those countries and size classes that include data for manufacturing establishments are shown.

North Dakota

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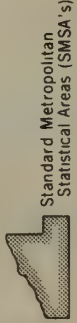
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NORTH DAKOTA



LEGEND

- Places of 50,000 to 100,000 inhabitants
- Central cities of SMSA's with fewer than 50,000 inhabitants
- Places of 25,000 to 50,000 inhabitants outside SMSA's



U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 13.8 thousand persons were employed in North Dakota's manufacturing establishments. This figure represented an increase of 35 percent from the 1972 figure of 10.2 thousand workers.

The total value added by manufacture for the State amounted to \$473 million in 1977, an increase of approximately 135 percent from the 1972 figure of \$201 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were machinery, except electrical; food and kindred products; and printing and publishing. They accounted for approximately 64 percent of the State's 1977 employment. The order has shifted from 1972 when industry groups food and kindred products; machinery, except electrical; and printing and publishing accounted for approximately 68 percent of the State's employment.

The most important counties in the State ranked by employment were Cass, Burleigh, and Grand Forks. They accounted for approximately 47 percent of the State's 1977 manufacturing employment. The order has shifted from 1972 when Cass, Grand Forks, and Burleigh accounted for approximately 46 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 5 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
North Dakota:						
1977.....	13.8	162.3	(D)	(D)	(D)	(D)
1972.....	10.2	78.6	(D)	(D)	(D)	(D)
1967.....	7.5	41.6	(D)	(D)	(D)	(D)
1963.....	6.5	31.5	(D)	(D)	(D)	(D)
STANDARD METROPOLITAN STATISTICAL AREA						
Grand Forks, N. Dak.-Minn.:						
1977.....	2.5	31.4	2.5	31.4	-	-
1972.....	2.5	18.0	(NA)	(NA)	(NA)	(NA)
Fargo-Moorhead, N. Dak.-Minn.:						
1977.....	5.1	63.9	5.1	63.9	-	-
1972.....	3.5	27.9	3.5	27.7	(Z)	.2
1967.....	2.5	16.4	2.5	16.4	-	-
1963.....	2.3	11.7	2.3	11.7	-	-

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers									Comparative indexes and U.S. employment			
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)							Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	Index of State employ- ment change (1977= 100)	United States
								Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)								
	NORTH DAKOTA																
1977 CENSUS.	571	145	13.8	162.3	9.2	17.7	97.2	473.3	842.7	1 312.9	53.0	.07	100	100	19 596.9		
1976 ASM....	(NA)	(NA)	14.2	139.4	8.8	16.4	78.7	387.0	864.1	1 236.2	54.9	.08	103	96	18 753.0		
1975 ASM....	(NA)	(NA)	14.1	119.6	9.2	16.8	74.3	323.7	809.3	1 128.3	23.2	.08	102	94	18 302.2		
1974 ASM....	(NA)	(NA)	12.3	106.0	8.4	16.8	68.7	325.9	669.7	982.1	27.8	.06	89	102	19 844.8		
1973 ASM....	(NA)	(NA)	11.9	96.2	9.0	18.2	62.5	330.1	428.1	773.2	23.8	.06	86	102	19 897.9		
1972 CENSUS.	482	117	10.2	78.6	7.1	14.4	47.7	200.7	379.3	593.9	13.3	.05	74	98	19 028.7		
1971 ASM....	(NA)	(NA)	10.1	70.3	6.9	14.5	42.9	189.0	349.8	536.1	11.3	.06	73	94	18 363.1		
1970 ASM....	(NA)	(NA)	10.3	73.5	7.3	14.8	46.1	188.8	310.3	494.3	10.1	.05	74	99	19 217.2		
1969 ASM....	(NA)	(NA)	8.3	50.4	5.6	11.4	32.9	144.5	268.1	408.4	13.6	.04	60	103	20 035.5		
1968 ASM....	(NA)	(NA)	7.9	46.0	5.5	10.0	28.7	143.9	266.5	409.3	6.1	.04	57	100	19 527.6		
1967 CENSUS.	456	92	7.5	41.6	5.2	10.7	26.1	112.8	255.5	365.4	6.3	.04	54	99	19 323.2		
1966 ASM....	(NA)	(NA)	6.7	37.2	4.5	9.3	21.0	100.9	221.2	318.8	7.1	.04	48	98	19 024.5		
1965 ASM....	(NA)	(NA)	6.5	34.0	4.5	9.2	21.0	97.3	204.5	294.2	11.2	.04	47	92	18 010.2		
1964 ASM....	(NA)	(NA)	6.5	31.7	4.5	9.0	19.8	71.6	195.8	267.1	17.0	.04	47	89	17 268.5		
1963 CENSUS.	459	78	6.5	31.5	4.5	9.1	19.8	72.4	(NA)	(NA)	8.1	.04	47	87	16 958.4		

(NA) Not available.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1. of State chapter.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
NORTH DAKOTA									
1977 CENSUS.....	11 728	67	1 917	5.48	64	77	34 201	34	26.70
1976 ASM.....	9 817	62	1 864	4.80	70	81	27 254	36	23.60
1975 ASM.....	8 482	65	1 826	4.42	72	82	22 957	37	19.27
1974 ASM.....	8 618	68	2 000	4.09	68	79	26 496	33	19.40
1973 ASM.....	8 084	76	2 022	3.43	55	68	27 739	29	18.14
1972 CENSUS.....	7 706	70	2 028	3.31	64	77	19 676	39	13.94
1971 ASM.....	6 960	68	2 101	2.96	65	78	18 713	37	13.03
1970 ASM.....	7 136	71	2 027	3.11	63	78	18 330	39	12.76
1969 ASM.....	6 072	67	2 036	2.89	66	78	17 410	35	12.68
1968 ASM.....	5 823	70	1 818	2.87	65	76	18 215	32	14.39
1967 CENSUS.....	5 547	69	2 058	2.44	70	81	15 040	37	10.54
1966 ASM.....	5 552	67	2 067	2.26	69	81	15 060	37	10.85
1965 ASM.....	5 231	69	2 044	2.28	70	81	14 969	35	10.58
1964 ASM.....	4 877	69	2 000	2.20	73	85	11 015	44	7.96
1963 CENSUS.....	4 846	69	2 022	2.18	(NA)	(NA)	11 138	44	7.96

Note: For qualifications to data, see footnotes on table 2a.

(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹ -----	number -----	571	482
With 1 to 19 employees-----	do -----	426	365
With 20 to 99 employees-----	do -----	114	92
With 100 employees or more-----	do -----	31	25
All employees, average for year ¹ -----	1,000 -----	13.8	10.2
Payroll for year, all employees ¹ -----	mil. dollars --	162.3	78.6
Production workers:			
Average for year-----	1,000 -----	9.2	7.1
March-----	do -----	9.0	6.9
May-----	do -----	9.0	7.0
August-----	do -----	9.2	6.9
November-----	do -----	9.8	7.5
Hours-----	millions -----	17.7	14.4
January to March-----	do -----	4.3	3.4
April to June-----	do -----	4.3	3.6
July to September-----	do -----	4.4	3.6
October to December-----	do -----	4.7	3.8
Wages-----	mil. dollars --	97.2	47.7
Cost of materials, etc. ² -----	do -----	842.7	379.3
Materials, parts, containers, etc., consumed-----	do -----	775.5	353.5
Resales-----	do -----	38.9	17.7
Fuels consumed-----	do -----	14.6	4.3
Purchased electric energy-----	do -----	9.5	2.7
Contract work-----	do -----	4.1	1.1
Value of shipments, including resales ² -----	do -----	1 312.9	593.9
Value of resales-----	do -----	38.7	21.2
Value added by manufacture-----	do -----	473.3	200.7
Manufacturers' inventories:			
Beginning of year-----	do -----	175.7	74.8
Finished products-----	do -----	70.1	37.1
Work in process-----	do -----	29.8	21.2
Materials, supplies, fuel, etc.-----	do -----	75.8	16.6
End of year-----	do -----	193.4	65.2
Finished products-----	do -----	69.8	31.9
Work in process-----	do -----	33.2	12.7
Materials, supplies, fuel, etc.-----	do -----	90.4	20.6
Capital expenditures for plant and equipment-----	do -----	54.7	14.0
New capital expenditures-----	do -----	53.0	13.3
New buildings and other structures-----	do -----	14.8	2.9
New machinery and equipment-----	do -----	38.2	10.4
Used capital expenditures-----	do -----	1.8	0.7

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Including central administrative offices and auxiliaries (for definition, see appendix B).

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	5.0	11
Beginning of year.....	343.3	6	Buildings and other structures.....	(2.9)	19
New capital expenditures.....	52.5	9	Machinery and equipment.....	2.1	13
Used capital expenditures.....	(2.6)	34			
Retirements.....	6.2	11	Depreciation charges during 1977:		
End of year.....	392.1	5	Total.....	25.5	6
Buildings and other structures:			Buildings and other structures.....	(6.7)	15
Beginning of year.....	98.8	8	Machinery and equipment.....	18.8	5
New capital expenditures.....	(14.8)	16			
Used capital expenditures.....	(1.1)	65	Supplemental labor costs:		
Retirements.....	(1.0)	15	Total.....	28.1	2
End of year.....	113.7	7	Legal costs.....	13.4	4
Machinery and equipment:			Voluntary costs.....	14.7	3
Beginning of year.....	244.5	5			
New capital expenditures.....	37.7	10	Purchased services:		
Automobiles, trucks, etc., for highway use...	5.2	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	0.6	(NA)	Buildings and other structures.....	(1.8)	15
All other.....	29.0	(NA)	Response coverage ratio (percent).....	67	(X)
New machinery and equipment, n.s.k.....	2.8	(NA)	Machinery.....	(5.6)	66
Used capital expenditures.....	(1.4)	23	Response coverage ratio (percent).....	63	(X)
Retirements.....	5.2	11	Cost of purchased communication services.....	(3.0)	24
End of year.....	278.5	4	Response coverage ratio (percent).....	65	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind.

(X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972		
		All establishments ²		All employees ²		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
North Dakota -----	-	571	145	13.8	162.3	9.2	17.7	97.2	473.3	842.7	1 312.9	53.0	10.2	200.7
STANDARD METROPOLITAN STATISTICAL AREAS														
Fargo-Moorhead, N. Dak.-Minn. -----	-	143	45	5.1	63.9	3.5	6.9	39.6	125.8	278.9	404.5	25.8	3.5	61.3
Portion in Minnesota -----	-	39	8	1.3	17.0	0.8	1.7	10.1	30.3	56.5	85.8	(D)	1.2	22.1
Portion in North Dakota -----	-	104	37	3.8	46.9	2.7	5.2	29.6	95.5	222.5	318.7	(D)	2.3	39.1
Grand Forks, N. Dak.-Minn. -----	-	93	24	2.5	31.4	1.8	3.8	21.6	88.6	156.1	235.0	7.9	2.5	38.1
Portion in Minnesota -----	-	46	10	1.3	17.3	1.1	2.4	13.6	43.5	95.0	130.5	(D)	1.1	18.9
Portion in North Dakota -----	-	47	14	1.2	14.0	0.8	1.5	8.0	45.0	61.1	104.6	(D)	1.4	19.2
COUNTIES														
Adams -----	E9	8	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	0.8
Barnes -----	-	9	2	0.1	1.1	0.1	0.1	0.6	2.6	1.6	4.1	0.1	0.1	1.4
Benson -----	-	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Bottineau -----	-	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	0.6
Bowman -----	E6	5	-	(Z)	0.3	(Z)	(Z)	0.1	0.4	0.6	1.0	(Z)	(D)	(D)
Burke -----	E1	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Burleigh -----	-	49	12	1.5	16.9	0.8	1.6	8.3	38.3	34.6	71.8	2.1	1.0	12.6
Cass -----	-	104	37	3.8	46.9	2.7	5.2	29.6	95.5	222.5	318.7	(D)	2.3	39.1
Cavalier -----	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dickey -----	E9	7	2	0.1	0.7	(Z)	(Z)	0.3	1.0	1.5	2.5	0.1	(D)	(D)
Divide -----	E0	4	-	(Z)	0.2	(Z)	(Z)	0.1	0.4	0.7	1.0	(Z)	(Z)	(NA)
Dunn -----	E5	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Eddy -----	E8	4	-	(Z)	(Z)	(Z)	(Z)	(Z)	0.2	0.1	0.3	(Z)	(D)	(D)
Emmons -----	E1	5	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Foster -----	-	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Golden Valley -----	-	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Grand Forks -----	-	47	14	1.2	14.0	0.8	1.5	8.0	45.0	61.1	104.6	(D)	1.4	19.2
Grant -----	E6	3	-	(Z)	(Z)	(Z)	(Z)	(Z)	0.1	0.1	0.2	(D)	(D)	(D)
Griggs -----	E2	8	1	0.1	1.0	0.1	0.1	0.7	2.2	2.7	5.7	0.1	(Z)	(NA)
Hettinger -----	E7	6	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kidder -----	-	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
La Moure -----	E1	5	1	0.1	0.6	(Z)	(Z)	0.2	1.4	3.9	5.2	(D)	(D)	(D)
Logan -----	E0	7	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
McHenry -----	-	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
McIntosh -----	E1	8	1	0.1	0.5	(Z)	(Z)	0.3	0.8	1.6	2.4	(D)	(Z)	(NA)
McKenzie -----	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
McLean -----	E5	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Mercer -----	E1	6	-	(Z)	0.3	(Z)	(Z)	0.2	0.9	4.0	4.9	0.1	(Z)	(NA)
Morton -----	-	22	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mountrail -----	E2	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nelson -----	E9	5	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pembina -----	-	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pierce -----	E7	7	2	0.1	0.9	0.1	0.1	0.6	2.5	7.9	10.5	0.2	0.1	1.4
Ramsey -----	E2	12	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	0.8
Ransom -----	E0	3	-	(Z)	0.1	(Z)	(Z)	(Z)	0.2	0.1	0.3	(Z)	(Z)	(NA)
Renville -----	E0	3	-	(Z)	(Z)	(Z)	(Z)	(Z)	0.1	0.1	0.2	(Z)	(Z)	(NA)
Richland -----	-	19	10	0.8	9.8	0.7	1.3	7.3	22.6	31.0	55.2	(D)	0.3	3.2
Rolette -----	E1	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Sargent -----	-	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Sheridan -----	E5	4	-	(Z)	0.1	(Z)	(Z)	0.1	(Z)	0.6	0.6	(D)	(D)	(D)
Sioux -----	-	2	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Stark -----	-	24	8	0.5	5.2	0.4	0.7	3.4	9.8	20.1	30.6	(D)	0.4	4.4
Steele -----	E0	4	-	(Z)	0.2	(Z)	(Z)	0.1	0.3	0.3	0.7	(Z)	(D)	(D)
Stutsman -----	-	22	8	0.8	9.0	0.5	1.0	4.4	30.8	29.2	57.6	(D)	0.6	8.2
Towner -----	E4	5	-	(Z)	0.2	(Z)	(Z)	0.1	0.2	0.4	0.6	(D)	(Z)	(NA)
Trail -----	-	10	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Walsh -----	-	11	2	0.1	1.2	0.1	0.2	0.9	3.4	3.4	6.8	0.1	0.2	2.2
Ward -----	-	42	10	0.8	8.6	0.4	0.8	4.3	19.3	18.7	38.1	1.5	0.6	10.0
Wells -----	E3	4	-	(Z)	0.3	(Z)	(Z)	0.2	0.9	0.5	1.4	(Z)	(D)	(D)
Williams -----	-	23	8	0.4	4.5	0.3	0.5	3.0	12.4	33.8	45.5	1.6	0.3	5.3
CITIES														
Bismarck -----	-	49	12	1.5	16.9	0.8	1.6	8.3	38.3	34.6	71.8	2.1	1.0	12.6
Fargo -----	-	66	26	3.0	37.1	2.1	4.1	23.0	72.3	129.4	202.5	(D)	1.7	31.0
Grand Forks -----	-	37	12	1.1	13.1	0.7	1.4	7.3	41.3	57.0	96.8	(D)	1.4	18.8
Jamestown -----	-	19	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Minot -----	-	36	10	0.7	8.4	0.4	0.8	4.1	18.8	18.2	37.0	1.4	0.5	8.9
Wahpeton -----	-	13	10	0.8	9.4	0.6	1.3	7.1	22.0	29.0	52.6	(D)	(NA)	(NA)
West Fargo -----	-	21	7	0.5	7.1	0.4	0.8	4.7	17.5	80.0	97.3	0.5	(NA)	(NA)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977										1972		
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			E ¹	Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)							Wages (million dollars)
	All Industries -----	-	571	145	13.8	162.3	9.2	17.7	97.2	473.3	842.7	1 312.9	53.0	10.2	200.7
20	Food and kindred products -----	-	125	46	3.9	44.3	2.5	5.1	27.1	146.6	372.7	514.5	30.8	3.6	66.9
201	Meat products -----	-	15	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	5.4
2011	Meat packing plants -----	-	14	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
202	Dairy products -----	E1	44	17	1.0	11.1	0.6	1.1	5.5	29.3	121.0	149.7	2.0	1.0	16.7
2022	Cheese, natural and processed -----	E1	14	6	0.3	2.2	0.2	0.4	1.6	9.8	46.5	55.8	0.5	0.3	5.1
2026	Fluid milk -----	-	16	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	10.7
203	Preserved fruits and vegetables -----	-	8	5	0.5	5.0	0.4	0.9	3.7	18.6	20.6	40.5	1.0	CC	(D)
2034	Dehydrated fruits, vegetables, and soups -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2037	Frozen fruits and vegetables -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
204	Grain mill products -----	-	16	5	0.4	4.1	0.2	0.4	2.2	16.9	43.3	57.2	(D)	0.3	5.6
2048	Prepared feeds, n.e.c. -----	E1	13	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
205	Bakery products -----	-	19	5	0.6	6.5	0.3	0.5	2.9	16.8	7.6	24.4	(D)	CC	(D)
2051	Bread, cake, and related products -----	-	19	5	0.6	6.5	0.3	0.5	2.9	16.8	7.6	24.4	(D)	CC	(D)
206	Sugar and confectionery products -----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2063	Beet sugar -----	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
208	Beverages -----	-	8	6	0.3	3.4	0.1	0.2	1.0	15.8	18.7	33.0	(D)	0.3	3.7
2086	Bottled and canned soft drinks -----	-	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.7
209	Miscellaneous foods and kindred products -----	-	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2099	Food preparations, n.e.c. -----	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
23	Apparel and other textile products -----	-	15	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	-	11	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2394	Canvas and related products -----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
24	Lumber and wood products -----	E1	27	5	0.4	4.0	0.3	0.5	2.4	6.8	12.4	18.9	0.3	0.4	5.2
243	Millwork, plywood, and structural members -----	-	18	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
27	Printing and publishing -----	E2	137	24	1.7	18.2	1.0	1.7	9.8	35.7	15.0	50.7	2.6	1.5	20.0
2711	Newspapers -----	E1	81	12	1.2	12.7	0.6	1.1	6.3	25.7	8.7	34.4	1.9	1.0	14.8
275	Commercial printing -----	E3	44	10	0.5	4.8	0.3	0.6	3.1	8.4	5.4	13.8	0.5	0.5	4.6
2752	Commercial printing, lithographic -----	E1	20	9	0.3	3.6	0.2	0.4	2.2	5.8	3.6	9.4	0.4	0.4	2.7
28	Chemicals and allied products -----	-	7	2	0.2	2.6	0.2	0.5	2.2	4.9	7.5	12.4	(D)	AA	(D)
286	Industrial organic chemicals -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2861	Gum and wood chemicals -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
29	Petroleum and coal products -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2911	Petroleum refining -----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
32	Stone, clay, and glass products -----	-	73	15	1.1	13.6	0.9	1.6	10.0	29.5	29.4	58.7	2.8	1.0	20.4
327	Concrete, gypsum, and plaster products -----	-	61	13	0.8	10.3	0.6	1.2	7.0	23.9	22.5	46.2	2.4	CC	(D)
3272	Concrete products, n.e.c. -----	-	12	5	0.3	3.4	0.2	0.4	2.0	7.1	4.8	11.9	0.8	0.2	2.7
3273	Ready-mixed concrete -----	E1	43	8	0.5	6.3	0.4	0.8	4.7	15.0	16.3	31.1	1.5	0.4	5.9
34	Fabricated metal products -----	E1	23	4	0.4	4.8	0.3	0.6	2.9	8.9	13.2	22.2	0.7	BB	(D)
344	Fabricated structural metal products -----	-	18	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BE	(D)
3441	Fabricated structural metal -----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
35	Machinery, except electrical -----	-	92	25	3.9	49.9	2.5	4.7	28.1	195.9	143.2	254.4	5.0	1.8	39.6
352	Farm and garden machinery -----	-	36	13	2.4	31.8	1.6	3.1	18.4	62.7	102.6	169.1	3.8	CC	(D)
3523	Farm machinery and equipment -----	-	35	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
353	Construction and related machinery -----	-	11	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3531	Construction machinery -----	-	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
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[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
37	Transportation equipment -----	-	11	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
371	Motor vehicles and equipment -	-	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3711	Motor vehicles and car bodies -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
372	Aircraft and parts -----	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3728	Aircraft equipment, n.e.c. ----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	25	6	0.5	4.2	0.3	0.7	2.8	8.6	3.9	12.4	(D)	0.3	2.8
399	Miscellaneous manufactures ---	-	18	4	0.2	2.3	0.2	0.3	1.4	5.2	2.8	7.8	(D)	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
²Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.
³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

**Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan
Statistical Areas: 1977 and 1972**

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
20	Fargo-Moorhead, N. Dak.-Minn., SMSA -----	-	143	45	5.1	63.9	3.5	6.9	39.6	125.8	278.9	404.5	25.8	3.5	61.3
	Food and kindred products --	-	20	10	1.4	16.1	0.9	2.0	11.0	40.6	148.6	186.7	20.6	1.1	22.5
27	Printing and publishing -----	E1	29	5	0.6	6.2	0.4	0.7	4.2	12.5	6.1	18.6	0.7	0.5	6.9
2711	Newspapers -----	-	7	1	0.3	3.3	0.2	0.3	2.3	8.0	2.6	10.5	(D)	(NA)	(NA)
34	Fabricated metal products --	E1	13	2	0.3	3.8	0.2	0.4	2.1	6.9	11.0	18.2	0.7	(NA)	(NA)
35	Machinery, except electrical -	-	27	12	1.7	22.5	1.1	2.2	13.6	40.1	82.4	124.8	2.4	0.5	9.7
352	Farm and garden machinery -----	-	8	6	1.4	18.5	0.9	1.8	11.0	31.5	75.0	108.9	2.0	0.3	6.2
3523	Farm machinery and equipment -----	-	8	6	1.4	18.5	0.9	1.8	11.0	31.5	75.0	108.9	2.0	0.3	6.2
	Grand Forks, N. Dak.-Minn., SMSA -----	-	93	24	2.5	31.4	1.8	3.8	21.6	88.6	156.1	235.0	7.9	2.5	38.1
20	Food and kindred products --	-	27	15	1.8	22.8	1.4	3.0	17.0	72.6	140.4	203.5	6.2	(NA)	(NA)
203	Preserved fruits and vegetables -----	-	6	3	0.6	6.1	0.5	0.8	4.6	15.8	23.4	40.4	(D)	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
(Z) Less than 50 thousand dollars or hours; under 50 employees.
¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
27	Burleigh County -----	-	49	12	1.5	16.9	0.8	1.6	8.3	38.3	34.6	71.8	2.1	1.0	12.6
	Cass County -----	-	104	37	3.8	46.9	2.7	5.2	29.6	95.5	222.5	318.7	(D)	2.3	39.1
	Printing and publishing -----	E1	20	5	0.5	5.8	0.3	0.6	3.9	11.8	5.4	17.2	(D)	0.5	6.5
	Grand Forks County -----	-	47	14	1.2	14.0	0.8	1.5	8.0	45.0	61.1	104.6	(D)	1.4	19.2
	Richland County -----	-	19	10	0.8	9.8	0.7	1.3	7.3	22.6	31.0	55.2	(D)	0.3	3.2
	Stark County -----	-	24	8	0.5	5.2	0.4	0.7	3.4	9.8	20.1	30.6	(D)	0.4	4.4
	Stutsman County -----	-	22	8	0.8	9.0	0.5	1.0	4.4	30.8	29.2	57.6	(D)	0.6	8.2
	Ward County -----	-	42	10	0.8	8.6	0.4	0.8	4.3	19.3	18.7	38.1	1.5	0.6	10.0

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
20	Bismarck -----	-	49	12	1.5	16.9	0.8	1.6	8.3	38.3	34.6	71.8	2.1	1.0	12.6
	Fargo -----	-	66	26	3.0	37.1	2.1	4.1	23.0	72.3	129.4	202.5	(D)	1.7	31.0
	Food and kindred products --	-	6	4	0.5	4.8	0.3	0.7	2.9	12.5	32.3	43.4	4.0	(NA)	(NA)
	Printing and publishing -----	E1	14	5	0.5	5.3	0.3	0.6	3.6	10.3	4.7	15.0	0.6	(NA)	(NA)
35	Machinery, except electrical --	-	12	6	1.4	19.1	0.9	1.9	11.5	32.4	74.3	108.8	2.1	(NA)	(NA)
20	Grand Forks -----	-	37	12	1.1	13.1	0.7	1.4	7.3	41.3	57.0	96.8	(D)	1.4	18.8
	Food and kindred products --	-	9	6	0.7	7.4	0.4	0.9	4.5	31.6	49.1	79.2	1.3	(NA)	(NA)
	Minot -----	-	36	10	0.7	8.4	0.4	0.8	4.1	18.8	18.2	37.0	1.4	0.5	8.9
	Wahpeton -----	-	13	10	0.8	9.4	0.6	1.3	7.1	22.0	29.0	52.6	(D)	(NA)	(NA)
	West Fargo -----	-	21	7	0.5	7.1	0.4	0.8	4.7	17.5	80.0	97.3	0.5	(NA)	(NA)

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
NORTH DAKOTA	571	125	-	-	15	27	7	6	137	7	4	6	-	73	2	23	92	5	11	3	25	3
1 TO 4 EMPLOYEES	265	41	-	-	9	14	2	3	67	3	2	3	-	33	-	10	41	2	3	1	13	1
5 TO 9 EMPLOYEES	91	21	-	-	3	7	3	3	17	1	-	-	-	14	-	5	15	2	4	1	2	-
10 TO 19 EMPLOYEES	70	17	-	-	1	3	1	1	9	-	-	1	-	11	-	4	11	1	1	1	4	-
20 TO 49 EMPLOYEES	82	22	-	-	1	7	1	2	16	1	1	1	-	11	1	2	15	1	1	1	3	2
50 TO 99 EMPLOYEES	32	15	-	-	1	1	1	-	4	-	-	-	-	2	1	1	3	1	-	-	2	-
100 TO 249 EMPLOYEES	26	11	-	-	1	1	-	-	3	1	1	-	-	2	-	1	3	-	1	-	1	-
250 TO 499 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	3	-	-	-	-	-
500 TO 999 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADAMS COUNTY	8	3	-	-	-	-	-	-	1	-	-	-	-	1	-	-	3	-	-	-	-	-
1 TO 19 EMPLOYEES	8	3	-	-	-	-	-	-	1	-	-	-	-	1	-	-	3	-	-	-	-	-
BARNES COUNTY	9	-	-	-	-	-	1	1	3	-	-	-	-	2	-	-	1	-	-	-	1	-
1 TO 19 EMPLOYEES	9	-	-	-	-	-	1	1	3	-	-	-	-	2	-	-	1	-	-	-	1	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
BENSON COUNTY	6	-	-	1	1	1	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	6	-	-	1	1	1	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BOTTINEAU COUNTY	5	2	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	5	2	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
BOWMAN COUNTY	5	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	1
1 TO 19 EMPLOYEES	5	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	1
BURKE COUNTY	3	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
BURLEIGH COUNTY	49	11	-	-	2	8	1	-	8	3	-	-	-	6	-	2	2	1	2	-	3	-
1 TO 19 EMPLOYEES	37	7	-	-	2	8	1	-	6	3	-	-	-	2	-	2	1	1	2	-	2	-
20 TO 99 EMPLOYEES	9	3	-	-	-	-	-	-	1	-	-	-	-	4	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CASS COUNTY	104	13	-	-	5	6	2	3	20	-	1	1	-	6	2	12	23	1	3	1	5	-
1 TO 19 EMPLOYEES	67	6	-	-	4	4	2	2	15	-	1	-	-	4	-	10	12	1	2	1	1	-
20 TO 99 EMPLOYEES	29	3	-	-	1	2	-	1	4	-	-	1	-	2	2	1	9	-	1	-	2	-
100 TO 249 EMPLOYEES	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
CAVALIER COUNTY	5	1	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DICKEY COUNTY	7	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	2	-	-	-	-	1
1 TO 19 EMPLOYEES	5	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	1	-	-	-	-	1
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DIVIDE COUNTY	4	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
DUNN COUNTY	2	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
EDDY COUNTY	4	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	2	-	-	1	-	-	-	-	1	-	-	-	-	-
EMMONS COUNTY	5	3	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	3	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
FOSTER COUNTY	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
GOLDEN VALLEY COUNTY	3	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
GRAND FORKS COUNTY	47	10	-	-	4	2	1	1	8	-	-	1	-	7	-	-	8	-	-	-	5	-
1 TO 19 EMPLOYEES	33	5	-	-	4	2	1	1	5	-	-	1	-	4	-	-	7	-	-	-	5	-
20 TO 99 EMPLOYEES	10	3	-	-	4	2	1	1	2	-	-	-	-	2	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	4	2	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
GRANT COUNTY	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-	
1 TO 19 EMPLOYEES.	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-	
GRIGGS COUNTY.	8	2	-	-	-	-	-	-	2	-	-	-	-	1	-	-	2	-	1	-	-	-	
1 TO 19 EMPLOYEES.	7	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	2	-	1	-	-	-	
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
HETTINGER COUNTY	6	3	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	
1 TO 19 EMPLOYEES.	6	3	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	
KIDDER COUNTY.	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	
1 TO 19 EMPLOYEES.	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	
LA MOURE COUNTY.	5	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	
1 TO 19 EMPLOYEES.	4	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LOGAN COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES.	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
MC HENRY COUNTY.	7	4	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES.	5	2	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MC INTOSH COUNTY	8	2	-	-	-	-	-	-	3	-	-	-	-	1	-	1	1	-	-	-	-	-	
1 TO 19 EMPLOYEES.	7	1	-	-	-	-	-	-	3	-	-	-	-	1	-	1	1	-	-	-	-	-	
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MC KENZIE COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES.	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
MC LEAN COUNTY	8	1	-	-	-	-	-	-	5	-	-	-	-	-	-	-	2	-	-	-	-	-	
1 TO 19 EMPLOYEES.	7	1	-	-	-	-	-	-	4	-	-	-	-	-	-	-	2	-	-	-	-	-	
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
MERCER COUNTY.	6	2	-	-	-	1	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-	
1 TO 19 EMPLOYEES.	6	2	-	-	-	1	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-	
MORTON COUNTY.	22	6	-	-	-	2	-	-	6	-	1	-	-	3	-	1	2	-	-	-	1	-	
1 TO 19 EMPLOYEES.	14	3	-	-	-	1	-	-	4	-	-	-	-	-	-	1	2	-	-	-	-	-	
20 TO 99 EMPLOYEES.	6	2	-	-	-	1	-	-	2	-	1	-	-	1	-	-	-	-	-	-	1	-	
100 TO 249 EMPLOYEES.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HOUNTRAIL COUNTY	4	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	1	-	-	-	-	
1 TO 19 EMPLOYEES.	3	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	1	-	-	-	-	
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NELSON COUNTY.	5	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	
1 TO 19 EMPLOYEES.	5	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	
PEMBINA COUNTY.	9	2	-	-	-	-	-	-	3	-	-	-	-	-	-	-	1	1	1	1	-	-	
1 TO 19 EMPLOYEES.	7	1	-	-	-	-	-	-	3	-	-	-	-	-	-	-	1	1	1	1	-	-	
100 TO 249 EMPLOYEES.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PIERCE COUNTY.	7	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	3	-	-	-	-	-	
1 TO 19 EMPLOYEES.	5	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	2	-	-	-	-	-	
20 TO 99 EMPLOYEES.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
RAMSEY COUNTY.	12	1	-	-	-	-	-	-	4	-	-	1	-	-	-	1	-	-	-	-	-	-	
1 TO 19 EMPLOYEES.	11	1	-	-	-	-	-	-	3	-	-	-	-	4	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
RANSOM COUNTY.	3	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES.	3	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	
RENVILLE COUNTY.	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-	
1 TO 19 EMPLOYEES.	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-	
RICHLAND COUNTY.	19	3	-	-	-	-	-	-	6	-	-	-	-	2	-	4	3	-	-	-	-	-	
1 TO 19 EMPLOYEES.	9	2	-	-	-	-	-	-	3	-	-	-	-	1	-	2	1	-	-	-	-	-	
20 TO 99 EMPLOYEES.	8	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES.	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																		CAO's		
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
ROLETTE COUNTY	4	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	1
1 TO 19 EMPLOYEES	3	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SARGENT COUNTY	7	2	-	-	-	-	-	-	2	-	-	-	-	1	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
SHERIDAN COUNTY	4	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	1	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	1	-	-	-
20 TO 99 EMPLOYEES	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STARK COUNTY	24	6	-	-	-	1	2	1	4	1	1	-	-	2	-	-	3	-	-	-	3	-
1 TO 19 EMPLOYEES	16	3	-	-	-	2	2	1	3	1	1	-	-	2	-	-	2	-	-	-	3	-
20 TO 99 EMPLOYEES	7	3	-	-	-	1	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STEELE COUNTY	4	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
STUTSMAN COUNTY	22	5	-	-	-	-	-	-	5	-	-	-	-	3	-	1	4	-	1	1	1	1
1 TO 19 EMPLOYEES	14	2	-	-	-	-	-	-	4	-	-	-	-	3	-	1	3	-	1	1	1	1
20 TO 99 EMPLOYEES	4	3	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
TOWNER COUNTY	5	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-	-
TRAILL COUNTY	10	4	-	-	-	1	-	-	1	2	-	-	-	-	-	-	1	-	-	-	1	-
1 TO 19 EMPLOYEES	9	3	-	-	-	1	-	-	1	2	-	-	-	-	-	-	1	-	-	-	1	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WALSH COUNTY	11	2	-	-	-	-	-	-	3	-	-	-	-	2	-	-	4	-	-	-	-	-
1 TO 19 EMPLOYEES	9	2	-	-	-	-	-	-	3	-	-	-	-	2	-	-	4	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WARD COUNTY	42	8	-	-	2	4	-	-	9	-	-	1	-	10	-	-	3	1	1	-	3	-
1 TO 19 EMPLOYEES	32	4	-	-	2	3	-	-	7	-	-	-	-	8	-	-	3	1	1	-	3	-
20 TO 99 EMPLOYEES	8	4	-	-	-	1	-	-	1	-	-	1	-	2	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
WELLS COUNTY	4	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	1	-	-	-	-	-
WILLIAMS COUNTY	23	7	-	-	-	1	-	-	3	1	1	-	-	5	-	-	5	-	-	-	-	-
1 TO 19 EMPLOYEES	15	5	-	-	-	1	-	-	2	1	1	-	-	4	-	-	3	-	-	-	-	-
20 TO 99 EMPLOYEES	8	2	-	-	-	-	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see introduction).
 - Represents zero.
 1 Only those counties and size classes that include data for manufacturing establishments are shown.



Ohio

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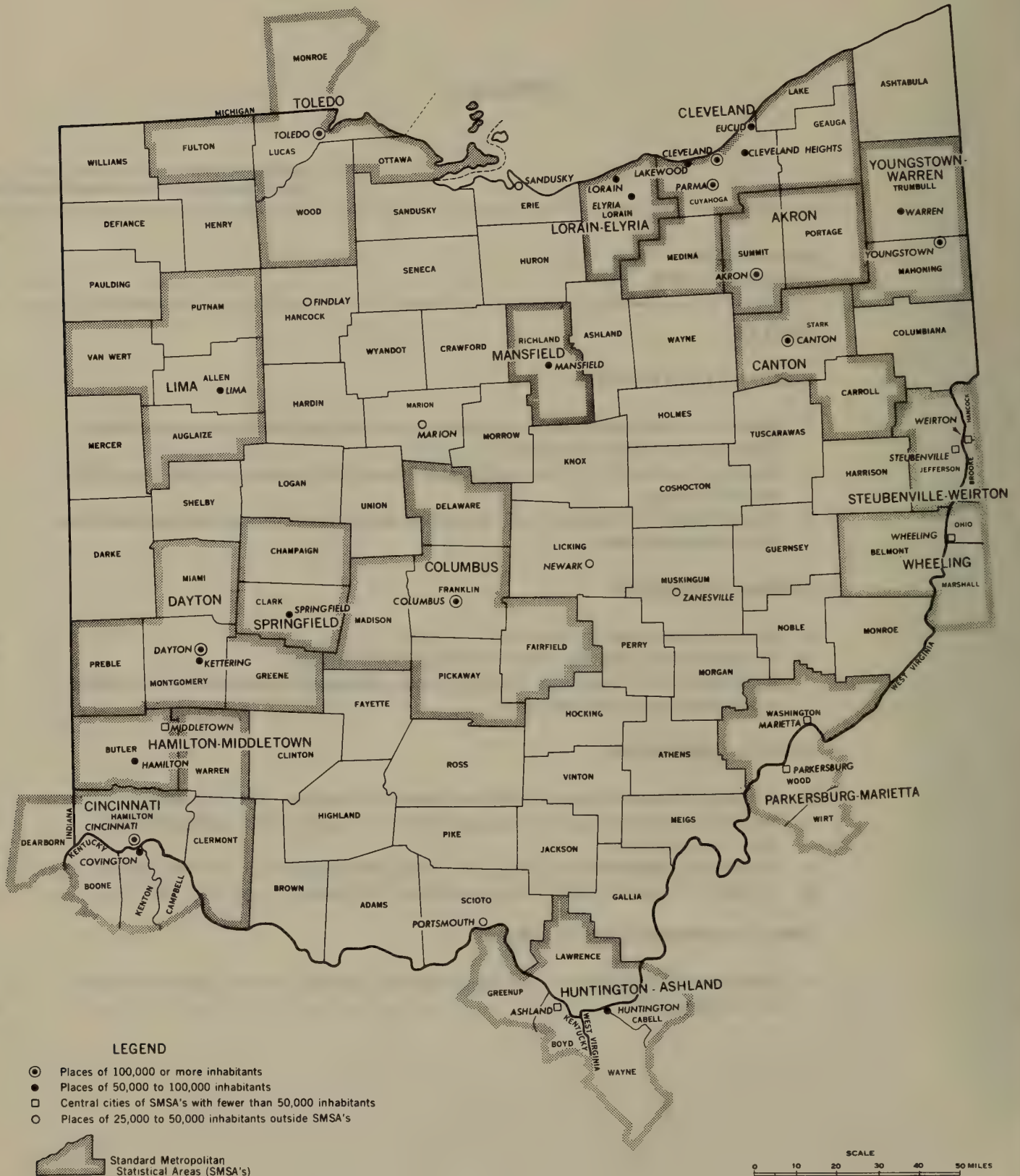
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OHIO



SUMMARY OF FINDINGS

In 1977, 1,331.2 thousand persons were employed in Ohio's manufacturing establishments. This figure represented a decrease of 1 percent from the 1972 figure of 1,346.3 thousand workers.

The total value added by manufacture for the State amounted to \$43,055 million in 1977, an increase of approximately 58 percent from the 1972 figure of \$27,171 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were machinery, except electrical; fabricated metal products, n.e.c.; transportation equipment; and primary metal industries. They accounted for approximately 50 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 49 percent of the State's employment.

The most important counties in the State ranked by employment were Cuyahoga, Hamilton, Montgomery, and Franklin.

They accounted for approximately 45 percent of the State's 1977 manufacturing employment. The order has shifted from 1972 when Cuyahoga, Hamilton, Montgomery, and Summit accounted for approximately 41 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 2 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Ohio:						
1977.....	1,331.2	20,356.0	1,249.5	18,753.7	81.7	1,602.3
1972.....	1 346.3	13,810.0	1,263.8	12,720.1	82.5	1,089.9
1967.....	1,397.0	10,523.1	1,334.9	9,898.5	62.1	624.6
1963.....	1,239.8	8,125.4	1,186.1	7,656.6	53.7	468.8
STANDARD CONSOLIDATED STATISTICAL AREAS						
Cincinnati-Hamilton, Ohio-Ky.-Ind.:						
1977.....	189.6	2,944.3	172.7	2,612.7	16.9	331.6
1972.....	185.5	1,926.8	170.0	1,718.9	15.5	207.9
Cleveland-Akron-Lorain:						
1977.....	388.7	6,278.6	355.0	5,606.5	33.7	672.1
1972.....	399.1	4,303.9	367.9	3,904.0	31.2	399.9
STANDARD METROPOLITAN STATISTICAL AREAS						
Akron:						
1977.....	83.5	1,305.4	73.7	1,136.2	9.8	169.2
1972.....	94.4	1,004.3	84.4	885.7	10.0	118.6
1967.....	101.1	807.0	92.2	724.6	8.8	82.4
1963.....	90.7	638.9	83.3	578.1	7.3	60.8
Canton:						
1977.....	57.2	856.4	54.5	825.2	2.7	31.2
1972.....	57.6	567.1	55.4	539.9	2.2	27.2
1967.....	62.5	452.9	59.4	423.8	3.1	29.1
1963.....	53.0	343.6	50.5	322.0	2.5	21.6
Cincinnati, Ohio-Ky.-Ind.:						
1977.....	160.2	2,435.8	146.2	2,170.6	14.0	265.2
1972.....	157.6	1,608.8	144.9	1,443.0	12.7	165.8
1967.....	166.8	1,258.7	155.6	1,150.5	11.2	108.2
1963.....	153.9	989.0	144.4	910.4	9.5	78.6
Cleveland:						
1977.....	265.4	4,262.8	242.1	3,770.8	23.3	492.0
1972.....	268.9	2,887.5	248.4	2,614.7	20.5	272.8
1967.....	306.8	2,411.4	288.2	2,216.7	18.6	194.7
1963.....	280.3	1,908.3	262.6	1,750.8	17.6	157.5
Columbus:						
1977.....	96.2	1,384.3	89.4	1,248.8	6.8	135.5
1972.....	102.4	970.3	96.7	898.8	5.7	71.5
1967.....	83.0	616.7	80.5	594.2	2.5	22.5
1963.....	80.2	510.7	78.2	494.1	2.0	16.5
Dayton:						
1977.....	106.5	1,748.3	99.7	1,614.6	6.8	133.7
1972.....	118.8	1,340.7	103.4	1,134.3	15.4	206.4
1967.....	126.2	1,022.6	123.6	997.6	2.6	25.0
1963.....	104.2	719.0	102.0	699.2	2.2	19.8
Hamilton-Middletown:						
1977.....	29.4	508.5	26.5	442.0	2.9	66.4
1972.....	28.5	318.0	25.7	276.0	2.8	42.0
1967.....	29.5	251.7	26.8	214.3	2.7	37.4
1963.....	26.2	195.1	(D)	(D)	(D)	(D)
Huntington-Ashland, W. Va.-Ky.-Ohio:						
1977.....	29.6	438.8	27.1	392.7	2.5	46.1
1972.....	25.7	254.4	24.2	237.5	1.5	16.9
1967.....	27.4	194.9	26.3	184.2	1.1	10.7
1963.....	23.6	145.7	(D)	(D)	(D)	(D)
Lima:						
1977.....	30.6	451.6	30.5	449.8	.1	1.8
1972.....	28.2	275.7	(D)	(D)	(D)	(D)
Lorain-Elyria:						
1977.....	39.8	710.5	39.2	699.6	.6	10.9
1972.....	36.1	412.1	35.4	403.6	.7	8.5
1967.....	33.8	263.1	33.1	256.5	.7	6.6
1963.....	29.8	214.1	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years—Con.

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
STANDARD METROPOLITAN STATISTICAL AREAS--Con.						
Mansfield:						
1977.....	20.9	311.7	20.8	309.9	.1	1.8
1972.....	22.6	225.8	(D)	(D)	(D)	(D)
1967.....	23.6	177.5	(D)	(D)	(D)	(D)
Parkersburg-Marietta, W. Va.-Ohio:						
1977.....	15.8	222.4	(D)	(D)	(D)	(D)
1972.....	18.0	173.0	(D)	(D)	(D)	(D)
Springfield:						
1977.....	18.3	245.0	18.3	244.3	(Z)	.7
1972.....	20.1	187.2	20.1	186.7	(Z)	.5
Steubenville-Weirton, Ohio-W. Va.:						
1977.....	26.7	497.6	26.5	494.7	.2	2.9
1972.....	29.0	329.3	27.8	313.2	1.2	16.4
1967.....	28.4	230.3	27.2	220.0	1.2	10.3
1963.....	28.6	206.0	(D)	(D)	(D)	(D)
Toledo, Ohio-Mich.:						
1977.....	92.7	1,504.2	83.4	1,315.8	9.3	188.4
1972.....	91.2	986.9	82.9	869.2	8.3	117.7
Wheeling, W. Va.-Ohio:						
1977.....	13.0	173.5	12.6	166.0	.4	7.5
1972.....	13.3	118.3	(D)	(D)	(D)	(D)
1967.....	16.3	106.6	15.6	100.4	.7	6.2
1963.....	15.6	92.9	(D)	(D)	(D)	(D)
Youngstown-Warren:						
1977.....	79.5	1,368.2	78.1	1,340.2	1.4	28.0
1972.....	86.6	952.8	85.5	924.1	1.1	27.7
1967.....	82.9	631.7	81.7	621.7	1.2	10.0
1963.....	69.4	479.2	68.0	467.9	1.4	11.3

(D) Withheld to avoid disclosing operations of individual companies. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers			Comparative indexes and U.S. employment							
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	United States		
													Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)	
OHIO															
1977 CENSUS.	17 354	6 728	1 331.2	20 356.0	924.4	1 838.5	12 907.5	43 054.7	52 736.3	95 234.7	2 790.7	6.79	100	100	19 596.9
1976 ASM....	(NA)	(NA)	1 283.0	17 855.4	888.7	1 752.7	11 235.4	37 724.5	46 482.0	83 715.9	2 140.5	6.84	96	96	18 753.0
1975 ASM....	(NA)	(NA)	1 269.7	15 967.9	864.4	1 674.7	9 821.3	32 292.2	40 994.6	73 488.3	2 160.5	6.94	95	94	18 302.2
1974 ASM....	(NA)	(NA)	1 428.2	16 575.8	1 001.6	1 981.8	10 538.1	35 088.7	40 770.2	74 484.5	2 523.6	7.20	107	102	19 844.8
1973 ASM....	(NA)	(NA)	1 418.5	15 509.5	1 010.1	2 047.1	10 056.2	31 174.3	33 497.1	64 021.5	1 939.3	7.13	107	102	19 897.9
1972 CENSUS.	16 390	6 487	1 346.3	13 810.0	940.0	1 887.8	8 717.0	27 171.0	28 285.6	55 025.4	1 695.4	7.08	101	98	19 028.7
1971 ASM....	(NA)	(NA)	1 331.5	12 512.9	922.3	1 819.3	7 796.1	23 991.7	25 920.7	50 142.4	1 310.2	7.25	100	94	18 363.1
1970 ASM....	(NA)	(NA)	1 407.0	12 289.1	982.9	1 951.0	7 723.3	23 141.0	24 220.8	47 149.8	1 705.7	7.32	106	99	19 217.2
1969 ASM....	(NA)	(NA)	1 468.9	12 419.4	1 048.1	2 142.2	8 019.8	24 192.6	25 275.0	49 054.5	1 975.1	7.33	110	103	20 035.5
1968 ASM....	(NA)	(NA)	1 430.8	11 455.7	1 018.7	2 076.7	7 371.6	22 151.1	23 748.7	45 747.5	1 756.9	7.33	107	100	19 527.6
1967 CENSUS.	15 428	6 487	1 397.0	10 523.6	998.1	2 014.5	6 745.4	20 435.4	21 589.5	41 845.3	1 694.1	7.23	105	99	19 323.2
1966 ASM....	(NA)	(NA)	1 411.1	10 376.1	1 016.5	2 116.7	6 807.8	20 132.1	22 034.1	41 644.9	1 585.8	7.42	106	98	19 024.5
1965 ASM....	(NA)	(NA)	1 333.8	9 437.3	962.1	1 993.9	6 193.1	18 358.8	20 158.0	38 280.0	1 332.0	7.41	100	92	18 010.2
1964 ASM....	(NA)	(NA)	1 260.1	8 579.1	902.2	1 857.0	5 582.9	16 477.0	18 350.5	34 594.8	1 085.0	7.30	95	89	17 268.5
1963 CENSUS.	15 484	5 800	1 239.8	8 125.4	885.1	1 799.1	5 257.2	1 550.6	(NA)	(NA)	847.8	.47	6	87	16 958.4
CINCINNATI-HAMILTON, OHIO-KY.-IND., SCSA															
1977 CENSUS.	2 373	958	189.6	2 944.3	117.7	238.4	1 618.9	6 608.2	7 196.2	13 769.5	357.1	.97	100	100	19 596.9
1972 CENSUS.	2 258	949	186.1	1 926.8	117.7	240.4	1 057.8	4 145.4	3 648.6	7 763.0	233.6	.97	98	98	19 028.7
CLEVELAND-AKRON-LORAIN SCSA															
1977 CENSUS.	5 877	2 184	388.7	6 278.6	256.4	520.3	3 744.5	11 966.8	14 173.4	25 950.7	793.7	1.98	100	100	19 596.9
1972 CENSUS.	5 656	2 114	399.1	4 303.9	262.6	534.0	2 567.9	7 925.5	8 119.9	15 911.8	480.6	2.10	103	98	19 028.7
AKRON SMSA															
1977 CENSUS.	1 061	406	83.5	1 305.4	50.1	99.4	699.4	2 014.2	2 205.8	4 158.1	156.8	.43	100	100	19 596.9
1976 ASM....	(NA)	(NA)	81.9	1 117.4	47.6	88.3	551.7	1 769.9	2 222.3	4 079.1	107.5	.44	98	96	18 753.0
1975 ASM....	(NA)	(NA)	86.9	1 072.7	50.0	95.4	562.0	1 719.5	2 106.7	3 799.1	123.9	.47	104	94	18 302.2
1974 ASM....	(NA)	(NA)	96.4	1 155.8	57.3	114.1	623.8	2 057.4	2 225.8	4 162.9	120.4	.49	115	102	19 844.8
1973 ASM....	(NA)	(NA)	96.2	1 094.4	57.0	114.0	591.1	1 926.9	1 794.2	3 664.3	148.7	.48	115	102	19 897.9
1972 CENSUS.	989	389	94.4	1 004.3	55.6	111.9	545.7	1 686.2	1 553.9	3 230.7	109.9	.50	113	98	19 028.7
1971 ASM....	(NA)	(NA)	95.4	972.2	54.9	106.8	495.4	1 513.3	1 423.3	2 972.0	93.6	.52	114	94	18 363.1
1970 ASM....	(NA)	(NA)	101.8	931.0	60.8	118.2	500.4	1 484.1	1 547.5	2 998.4	122.8	.53	122	99	19 217.2
1969 ASM....	(NA)	(NA)	103.8	924.6	63.2	127.7	514.9	1 460.0	1 531.6	2 967.9	144.1	.52	124	103	20 035.5
1968 ASM....	(NA)	(NA)	104.7	882.9	63.3	127.2	489.6	1 426.5	1 486.0	2 882.2	110.7	.54	125	100	19 527.6
1967 CENSUS.	877	369	101.1	807.0	62.0	120.6	448.9	1 400.8	1 344.0	2 751.0	96.4	.52	121	99	19 323.2
1966 ASM....	(NA)	(NA)	97.1	757.6	59.5	122.7	438.0	1 240.3	1 378.7	2 582.1	101.1	.51	116	98	19 024.5
1965 ASM....	(NA)	(NA)	93.7	710.6	57.9	120.8	409.3	1 195.1	1 219.1	2 389.1	85.1	.52	112	92	18 010.2
1964 ASM....	(NA)	(NA)	90.8	662.7	56.5	116.1	378.3	1 095.6	1 120.7	2 192.2	70.6	.53	109	89	17 268.5
1963 CENSUS.	854	314	90.7	638.9	56.4	113.6	359.7	1 014.0	(NA)	(NA)	63.0	.53	109	87	16 958.4
CANTON SMSA															
1977 CENSUS.	603	235	57.2	856.4	41.8	80.8	601.5	1 897.5	2 405.6	4 262.4	121.2	.29	100	100	19 596.9
1976 ASM....	(NA)	(NA)	57.0	803.1	41.2	78.6	533.6	1 576.1	2 151.3	3 738.0	98.9	.30	100	96	18 753.0
1975 ASM....	(NA)	(NA)	58.3	739.8	41.6	79.0	489.9	1 550.8	1 885.4	3 489.1	84.7	.32	102	94	18 302.2
1974 ASM....	(NA)	(NA)	67.2	786.1	49.6	96.8	544.8	1 633.8	1 952.5	3 500.2	92.6	.34	118	102	19 844.8
1973 ASM....	(NA)	(NA)	62.8	681.0	47.5	94.2	484.3	1 390.9	1 526.3	2 858.0	146.5	.32	110	102	19 897.9
1972 CENSUS.	574	220	57.6	567.1	43.0	83.1	391.9	1 151.6	1 206.7	2 354.7	138.8	.30	101	98	19 028.7
1971 ASM....	(NA)	(NA)	63.1	562.4	45.6	85.1	375.2	1 052.6	1 128.7	2 203.1	53.1	.34	110	94	18 363.1
1970 ASM....	(NA)	(NA)	66.6	569.4	49.6	93.9	385.0	1 037.6	1 139.4	2 154.4	94.6	.35	116	99	19 217.2
1969 ASM....	(NA)	(NA)	66.1	547.8	49.7	100.4	381.7	1 070.4	1 130.0	2 174.8	69.5	.33	115	103	20 035.5
1968 ASM....	(NA)	(NA)	64.0	484.6	47.8	93.5	332.1	1 016.4	994.5	2 008.4	75.6	.33	112	100	19 527.6
1967 CENSUS.	514	216	62.5	452.9	46.8	92.0	310.6	896.6	920.0	1 818.6	84.5	.32	109	99	19 323.2
1966 ASM....	(NA)	(NA)	63.1	461.2	47.2	96.4	321.2	904.2	951.8	1 832.2	72.1	.33	110	98	19 024.5
1965 ASM....	(NA)	(NA)	59.4	417.0	44.9	90.6	291.3	821.5	867.6	1 680.2	48.1	.33	104	92	18 010.2
1964 ASM....	(NA)	(NA)	55.3	378.4	41.7	85.2	264.2	699.9	790.0	1 475.3	33.8	.32	97	89	17 268.5
1963 CENSUS.	519	198	53.0	343.6	40.0	78.7	236.3	666.9	(NA)	(NA)	33.3	.31	93	87	16 958.4
CINCINNATI, OHIO-KY.-IND., SMSA															
1977 CENSUS.	2 135	856	160.2	2 435.8	97.2	197.9	1 289.5	5 645.9	6 043.1	11 647.9	299.2	.82	100	100	19 596.9
1976 ASM....	(NA)	(NA)	156.7	2 205.1	94.0	190.9	1 153.5	4 986.1	5 691.3	10 632.6	232.2	.84	98	96	18 753.0
1975 ASM....	(NA)	(NA)	156.3	2 006.2	92.7	184.2	1 025.7	4 499.8	5 123.3	9 637.3	230.8	.85	98	94	18 302.2
1974 ASM....	(NA)	(NA)	173.8	2 060.6	107.8	218.1	1 076.1	4 527.9	4 794.6	9 169.1	268.8	.88	108	102	19 844.8
1973 ASM....	(NA)	(NA)	164.6	1 805.6	103.1	211.0	966.1	3 960.1	3 897.4	778.3	198.0	.83	103	102	19 897.9
1972 CENSUS.	2 045	855	157.6	1 608.8	97.5	197.6	848.9	3 561.2	3 060.9	6 601.2	199.3	.83	98	98	19 028.7
1971 ASM....	(NA)	(NA)	158.4	1 496.6	98.2	196.3	790.6	3 377.0	3 118.2	6 522.5	133.4	.86	99	94	18 363.1
1970 ASM....	(NA)	(NA)	167.9	1 473.0	104.7	208.4	774.8	3 200.2	3 061.4	6 200.0	172.3	.87	105	99	19 217.2
1969 ASM....	(NA)	(NA)	172.2	1 435.8	108.9	221.6	764.9	3 156.5	3 060.5	6 162.3	192.3	.86	107	103	20 035.5
1968 ASM....	(NA)	(NA)	170.4	1 354.4	108.0	221.4	728.4	2 962.5	2 886.6	5 843.6	163.1	.87	106	100	19 527.6
1967 CENSUS.	1 921	818	166.8	1 258.7	107.2	217.0	681.9	2 704.1	2 767.8	5 460.4	158.3	.86	104	99	19 323.2
1966 ASM....	(NA)	(NA)	164.0	1 195.3	106.2	225.1	675.3	2 567.7	2 706.9	5 225.4	148.1	.86	102	98	19 024.5
1965 ASM....	(NA)	(NA)	155.1	1 086.5	101.5	211.4	612.6	2 356.6	2 357.0	4 880.4	115.0	.86	97	92	18 010.2
1964 ASM....	(NA)	(NA)	149.8	998.0	97.9	204.7	568.0	2 168.4	2 272.9	4 432.9	93.9	.87	94	89	17 268.5
1963 CENSUS.	1 971	797	153.9	989.0	100.1										

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years—Con.

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers								Comparative indexes and U.S. employment			
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	Index of State em- plov- ment change (1977= 100)	United States		
														Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)	
CLEVELAND SMSA																
1977 CENSUS.	4 475	1 654	265.4	4 262.8	175.9	357.3	2 524.1	8 105.9	8 600.4	16 599.6	543.1	1.35	100	100	19 596.9	
1976 ASM....	(NA)	(NA)	265.8	3 811.6	174.2	351.6	229.7	7 347.4	7 576.0	14 839.9	395.0	1.41	100	96	18 753.0	
1975 ASM....	(NA)	(NA)	270.2	3 467.3	173.2	337.5	1 956.6	6 180.9	6 780.0	13 028.2	399.7	1.48	102	94	18 302.2	
1974 ASM....	(NA)	(NA)	297.4	3 538.2	196.8	395.3	2 085.8	6 788.8	6 983.4	13 436.2	506.9	1.50	112	102	19 844.8	
1973 ASM....	(NA)	(NA)	284.1	3 213.9	194.9	400.0	1 982.3	5 937.2	5 694.2	11 495.1	326.8	1.43	107	102	19 897.9	
1972 CENSUS.	4 359	1 617	268.9	2 887.5	179.6	364.8	1 729.2	5 220.9	4 896.2	10 009.2	284.9	1.41	101	98	19 028.7	
1971 ASM....	(NA)	(NA)	272.1	2 660.7	178.3	351.2	1 548.7	4 577.9	4 985.7	9 573.5	221.8	1.48	103	94	18 363.1	
1970 ASM....	(NA)	(NA)	296.9	2 679.7	194.9	385.9	1 565.1	4 591.6	4 652.4	9 218.5	325.1	1.54	112	99	19 217.2	
1969 ASM....	(NA)	(NA)	316.1	2 776.5	215.8	441.1	1 710.9	4 989.4	5 082.5	10 013.8	423.7	1.58	119	103	20 035.5	
1968 ASM....	(NA)	(NA)	311.2	2 601.5	212.1	439.5	1 603.2	4 619.7	4 830.8	9 426.5	376.4	1.59	117	100	19 527.6	
1967 CENSUS.	4 168	1 662	306.8	2 411.4	209.9	428.3	1 471.5	4 297.0	4 293.6	8 522.7	331.0	1.59	116	99	19 323.2	
1966 ASM....	4 168	1 662	307.4	2 397.9	212.2	452.2	1 495.3	4 416.7	4 518.1	8 810.6	282.9	1.62	116	98	19 024.5	
1965 ASM....	4 168	1 662	294.2	2 191.3	204.2	430.6	1 370.0	4 009.5	4 337.8	8 283.0	260.0	1.63	111	92	18 010.2	
1964 ASM....	4 168	1 662	285.8	2 029.2	195.8	405.4	1 243.3	3 538.1	3 961.8	7 473.2	228.1	1.66	108	89	17 268.5	
1963 CENSUS.	14 175	1 517	280.3	1 908.3	194.2	397.6	1 176.4	3 378.8	(NA)	(NA)	176.9	1.65	106	87	16 958.4	
COLUMBUS SMSA																
1977 CENSUS.	1 315	500	96.2	1 384.3	63.1	122.8	814.7	2 969.4	2 830.7	5 772.3	165.4	.49	100	100	19 596.9	
1976 ASM....	(NA)	(NA)	88.8	1 174.8	58.8	113.9	691.2	2 584.3	2 514.2	5 049.1	148.8	.47	92	96	18 753.0	
1975 ASM....	(NA)	(NA)	90.0	1 096.0	58.9	113.3	635.1	2 253.4	2 358.2	4 639.3	153.3	.49	94	94	18 302.2	
1974 ASM....	(NA)	(NA)	99.0	1 089.6	67.2	128.4	666.4	2 375.5	2 279.7	4 563.7	140.0	.50	103	102	19 844.8	
1973 ASM....	(NA)	(NA)	104.5	1 063.7	72.0	139.1	649.6	2 226.3	1 881.4	4 081.1	155.4	.53	109	102	19 897.9	
1972 CENSUS.	1 199	497	102.4	970.3	69.1	135.0	580.7	1 989.2	1 606.0	3 559.7	103.5	.54	106	98	19 028.7	
1971 ASM....	(NA)	(NA)	82.8	739.1	56.5	109.9	447.1	1 557.7	1 295.3	2 868.4	87.6	.45	86	94	18 363.1	
1970 ASM....	(NA)	(NA)	88.0	749.2	61.2	121.8	464.5	1 441.8	1 291.9	2 802.1	120.4	.46	91	99	19 217.2	
1969 ASM....	976	361	81.8	720.7	61.2	123.2	447.2	1 404.1	1 235.3	2 616.2	101.6	.40	83	103	20 035.5	
1968 ASM....	(NA)	(NA)	86.0	674.8	58.6	118.0	407.5	1 228.1	1 151.2	2 373.0	103.6	.44	89	100	19 527.6	
1967 CENSUS.	947	961	83.0	616.7	56.4	113.0	365.5	1 162.2	1 036.5	2 192.5	116.6	.43	86	99	19 323.2	
1966 ASM....	(NA)	(NA)	87.2	620.9	59.1	119.4	374.6	1 195.9	1 056.9	2 229.4	83.5	.46	91	98	19 024.5	
1965 ASM....	(NA)	(NA)	83.6	570.8	57.5	116.7	349.8	1 110.2	985.1	2 075.4	76.9	.46	87	92	18 010.2	
1964 ASM....	(NA)	(NA)	79.2	524.8	53.5	109.2	319.8	1 023.4	904.0	1 912.1	53.7	.46	82	89	17 268.5	
1963 CENSUS.	976	361	80.2	510.7	53.7	101.2	303.4	961.9	(NA)	(NA)	57.5	.47	83	87	16 958.4	
DAYTON SMSA																
1977 CENSUS.	1 302	506	106.5	1 748.3	72.9	150.4	1 120.4	3 261.0	2 975.8	6 159.8	266.8	.54	100	100	19 596.9	
1976 ASM....	(NA)	(NA)	99.7	1 495.0	69.0	139.6	965.3	2 774.2	2 498.6	5 209.0	156.5	.53	94	96	18 753.0	
1975 ASM....	(NA)	(NA)	95.8	1 291.3	64.1	126.5	792.2	2 100.3	2 102.3	4 299.0	152.2	.52	90	94	18 302.2	
1974 ASM....	(NA)	(NA)	112.2	1 351.1	76.8	151.9	854.1	2 437.2	2 163.2	4 514.2	177.9	.57	105	102	19 844.8	
1973 ASM....	(NA)	(NA)	118.1	1 382.5	82.6	169.7	906.5	2 427.9	2 015.0	4 385.8	184.2	.59	111	102	19 897.9	
1972 CENSUS.	1 149	450	118.8	1 340.7	78.6	160.1	815.8	2 152.9	1 751.5	3 892.6	107.9	.62	112	98	19 028.7	
1971 ASM....	(NA)	(NA)	113.1	1 137.4	77.3	151.9	724.9	1 827.5	1 536.8	3 455.6	118.8	.62	106	94	18 363.1	
1970 ASM....	(NA)	(NA)	125.0	1 191.3	88.5	178.2	789.1	2 026.6	1 446.4	3 426.9	131.0	.65	117	99	19 217.2	
1969 ASM....	(NA)	(NA)	132.1	1 219.4	97.6	206.0	838.7	2 145.5	1 571.6	3 675.8	142.9	.66	124	103	20 035.5	
1968 ASM....	(NA)	(NA)	124.7	1 085.4	92.3	191.6	743.5	1 855.8	1 431.0	3 281.9	128.6	.64	117	100	19 527.6	
1967 CENSUS.	1 041	431	126.2	1 022.6	95.0	169.3	720.0	1 908.4	1 345.3	3 211.9	114.5	.65	118	99	19 323.2	
1966 ASM....	(NA)	(NA)	1 122.6	978.7	92.9	200.5	689.8	1 745.7	1 342.4	3 025.5	119.2	6.43	1 148	98	19 024.5	
1965 ASM....	(NA)	(NA)	116.1	879.5	87.8	187.6	624.2	1 580.7	1 027.3	2 764.8	114.3	.64	109	92	18 010.2	
1964 ASM....	(NA)	(NA)	108.1	775.7	81.1	172.1	544.9	1 426.8	1 055.9	2 466.3	79.6	.63	101	89	17 268.5	
1963 CENSUS.	1 054	393	104.2	719.0	78.2	163.2	503.2	1 318.3	(NA)	(NA)	59.8	.61	98	87	16 958.4	
TOLEDO, OHIO-MICH., SMSA																
1977 CENSUS.	1 247	455	92.7	1 504.2	65.2	128.4	963.6	3 203.0	5 007.8	8 169.9	259.7	.47	100	100	19 596.9	
1976 ASM....	(NA)	(NA)	85.5	1 287.6	61.0	122.0	839.9	2 903.2	4 149.4	7 008.3	158.2	.46	92	96	18 753.0	
1975 ASM....	(NA)	(NA)	82.6	1 097.2	57.9	111.0	703.3	2 522.9	3 529.3	6 073.6	178.0	.45	89	94	18 302.2	
1974 ASM....	(NA)	(NA)	92.0	1 127.9	63.7	125.4	721.6	2 325.5	3 292.6	5 551.3	258.5	.46	99	102	19 844.8	
1973 ASM....	(NA)	(NA)	95.6	1 113.3	68.4	138.1	717.4	2 156.2	2 649.3	4 775.3	129.8	.48	103	102	19 897.9	
1972 CENSUS.	1 195	453	91.2	986.9	64.0	128.9	625.6	1 878.9	2 250.3	4 103.2	193.1	.48	98	98	19 028.7	
YOUNGSTOWN-WARREN SMSA																
1977 CENSUS.	620	258	79.5	1 368.2	62.8	120.4	1 026.7	2 620.2	3 996.0	6 612.1	131.0	.41	100	100	19 596.9	
1976 ASM....	(NA)	(NA)	80.6	1 220.1	63.4	118.6	912.2	2 444.7	3 721.3	6 103.9	109.0	.43	101	96	18 753.0	
1975 ASM....	(NA)	(NA)	77.2	1 072.9	60.9	113.2	797.6	2 123.5	3 482.1	5 570.8	101.1	.42	97	94	18 302.2	
1974 ASM....	(NA)	(NA)	90.0	1 142.8	73.2	140.2	883.4	2 643.0	3 594.7	6 179.4	86.7	.45	113	102	19 844.8	
1973 ASM....	(NA)	(NA)	92.3	1 112.2	74.9	152.7	866.6	2 146.2	3 021.5	5 132.2	86.7	.46	116	102	19 897.9	
1972 CENSUS.	603	255	86.6	952.8	69.2	135.3	707.7	1 749.5	2 635.4	4 351.4	62.8	.46	109	98	19 028.7	
1971 ASM....	(NA)	(NA)	83.1	828.9	65.7	128.5	617.1	1 734.0	2 278.2	4 020.9	60.3	.45	105	94	18 363.1	
1970 ASM....	(NA)	(NA)	82.0	732.2	64.5	123.1	534.6	1 280.1	1 719.0	2 987.8	109.5	.43	103	99	19 217.2	
1969 ASM....	(NA)	(NA)	89.3	771.2	71.7	146.7	570.0	1 589.2	2 133.9	3 687.7	208.8	.45	112	103	20 035.5	
1968 ASM....	(NA)	(NA)	84.5	693.5	68.1	139.0	515.7	1 410.9	1 984.5	3 408.1	76.6	.43	106	100	19 527.6	
1967 CENSUS.	567	240	82.9	631.7	66.5	134.5	469.8	1 260.5	1 839.8	3 077.8	773.6	.43	104	99	19 323.2	
1966 ASM....	(NA)	(NA)	83.2	630.4	67.3	134.5	480.9	1 185.1	1 705.9	2 871.5	97.0	.44				

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
OHIO									
1977 CENSUS.....	15 292	69	1 989	7.02	55	77	32 344	47	23.42
1976 ASM.....	13 917	69	1 972	6.41	56	77	29 403	47	21.52
1975 ASM.....	12 576	68	1 937	5.86	56	78	25 433	49	19.28
1974 ASM.....	11 606	70	1 979	5.32	55	77	24 568	47	17.71
1973 ASM.....	10 934	71	2 027	4.91	52	77	21 977	50	15.23
1972 CENSUS.....	10 258	70	2 008	4.62	51	77	20 182	51	14.39
1971 ASM.....	9 398	69	1 973	4.29	52	77	18 019	52	13.19
1970 ASM.....	8 734	70	1 985	3.96	51	77	16 447	53	11.86
1969 ASM.....	8 455	71	2 044	3.74	52	77	16 470	51	11.29
1968 ASM.....	8 006	71	2 039	3.55	52	77	15 482	52	10.67
1967 CENSUS.....	7 533	71	2 018	3.35	52	77	14 628	51	10.14
1966 ASM.....	7 353	72	2 082	3.22	53	78	14 267	52	9.51
1965 ASM.....	7 075	72	2 072	3.11	53	77	13 764	51	9.21
1964 ASM.....	6 808	72	2 058	3.01	53	78	13 076	52	8.87
1963 CENSUS.....	6 554	71	2 032	2.92	(NA)	(NA)	12 507	52	8.62
CINCINNATI-HAMILTON, OHIO-KY.-IND., SCSA									
1977 CENSUS.....	15 531	62	2 025	6.79	52	74	34 857	45	27.72
1972 CENSUS.....	10 354	63	2 042	4.40	47	72	22 275	46	17.24
CLEVELAND-AKRON-LORAIN SCSA									
1977 CENSUS.....	16 153	66	2 029	7.20	55	79	30 787	52	23.00
1972 CENSUS.....	10 776	66	2 034	4.81	51	78	19 880	54	14.87
AKRON SMSA									
1977 CENSUS.....	15 624	60	1 985	7.03	53	84	24 108	65	20.25
1976 ASM.....	13 643	58	1 855	6.25	54	82	21 611	63	20.04
1975 ASM.....	12 344	58	1 908	5.89	55	84	19 787	62	18.02
1974 ASM.....	11 990	59	1 991	5.47	53	81	21 342	56	18.03
1973 ASM.....	11 376	59	2 000	5.19	49	79	20 030	57	16.90
1972 CENSUS.....	10 639	59	2 013	4.88	48	79	17 862	60	15.07
1971 ASM.....	10 191	58	1 945	4.64	48	81	15 863	64	14.17
1970 ASM.....	9 145	60	1 944	4.23	52	83	14 579	63	12.56
1969 ASM.....	8 908	61	2 021	4.03	52	83	14 066	63	11.43
1968 ASM.....	8 433	60	2 009	3.85	52	82	13 625	62	11.21
1967 CENSUS.....	7 982	61	1 945	3.72	49	78	13 856	58	11.62
1966 ASM.....	7 802	61	2 062	3.57	53	83	12 773	61	10.11
1965 ASM.....	7 584	62	2 086	3.39	51	81	12 755	59	9.89
1964 ASM.....	7 298	62	2 055	3.26	51	81	12 066	60	9.44
1963 CENSUS.....	7 044	62	2 014	3.17	(NA)	(NA)	11 180	63	8.93
CANTON SMSA									
1977 CENSUS.....	14 962	73	1 935	7.44	56	77	33 150	45	23.47
1976 ASM.....	14 089	72	1 908	6.79	58	79	27 651	51	20.05
1975 ASM.....	12 690	71	1 899	6.20	54	75	26 600	48	19.63
1974 ASM.....	11 698	74	1 952	5.63	56	78	24 313	48	16.88
1973 ASM.....	10 844	76	1 983	5.14	53	77	22 148	49	14.77
1972 CENSUS.....	9 845	75	1 933	4.72	51	75	19 993	49	13.86
1971 ASM.....	8 913	72	1 866	4.41	51	77	16 681	53	12.37
1970 ASM.....	8 550	74	1 893	4.10	53	79	15 580	55	11.05
1969 ASM.....	8 281	75	2 020	3.80	52	77	16 194	51	10.66
1968 ASM.....	7 572	75	1 956	3.55	50	74	15 881	48	10.87
1967 CENSUS.....	7 246	75	1 966	3.38	51	75	14 346	51	9.75
1966 ASM.....	7 309	75	2 042	3.33	52	77	14 330	51	9.38
1965 ASM.....	7 020	76	2 018	3.22	52	76	13 830	51	9.07
1964 ASM.....	6 843	75	2 043	3.10	54	79	12 656	54	8.21
1963 CENSUS.....	6 483	75	1 968	3.00	(NA)	(NA)	12 583	52	8.47
CINCINNATI, OHIO-KY.-IND., SMSA									
1977 CENSUS.....	15 206	61	2 035	6.52	52	73	35 245	43	28.53
1976 ASM.....	14 072	60	2 031	6.04	54	74	31 819	44	26.12
1975 ASM.....	12 836	59	1 987	5.57	53	74	28 790	45	24.43
1974 ASM.....	11 856	62	2 023	4.93	52	75	26 052	46	20.76
1973 ASM.....	10 970	63	2 047	4.58	50	73	24 059	46	18.77
1972 CENSUS.....	10 208	62	2 027	4.30	46	71	22 596	45	18.02
1971 ASM.....	9 448	62	1 999	4.03	48	71	21 319	44	17.20
1970 ASM.....	8 773	62	1 990	3.72	49	73	19 060	46	15.36
1969 ASM.....	8 338	63	2 035	3.45	50	73	18 330	45	14.24
1968 ASM.....	7 948	63	2 050	3.29	49	73	17 386	46	13.38
1967 CENSUS.....	7 546	64	2 024	3.14	51	74	16 212	47	12.46
1966 ASM.....	7 288	65	2 120	3.00	52	75	15 657	47	11.41
1965 ASM.....	7 005	65	2 083	2.90	48	71	15 194	46	11.15
1964 ASM.....	6 662	65	2 091	2.77	51	74	14 475	46	10.59
1963 CENSUS.....	6 426	65	2 069	2.68	(NA)	(NA)	13 368	48	9.93

See footnotes at end of table.

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years—Con.

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
CLEVELAND SMSA									
1977 CENSUS.....	16 064	66	2 032	7.06	52	77	30 547	53	22.69
1976 ASM.....	14 340	66	2 018	6.34	51	77	27 642	52	20.90
1975 ASM.....	12 832	64	1 949	5.80	52	79	22 875	56	18.31
1974 ASM.....	11 897	66	2 009	5.28	52	78	22 827	52	17.17
1973 ASM.....	11 313	69	2 052	4.96	50	77	20 898	54	14.84
1972 CENSUS.....	10 738	67	2 031	4.74	49	78	19 416	55	14.31
1971 ASM.....	9 778	66	1 970	4.41	52	80	16 824	58	13.04
1970 ASM.....	9 026	66	1 980	4.06	50	80	15 465	58	11.90
1969 ASM.....	8 784	68	2 044	3.88	51	78	15 784	56	11.31
1968 ASM.....	8 360	68	2 072	3.65	51	79	14 845	56	10.51
1967 CENSUS.....	7 860	68	2 040	3.44	50	79	14 006	56	10.03
1966 ASM.....	7 801	69	2 131	3.31	51	78	14 368	54	9.77
1965 ASM.....	7 448	69	2 109	3.18	52	79	13 628	55	9.31
1964 ASM.....	7 100	69	2 070	3.07	53	80	12 380	57	8.73
1963 CENSUS.....	6 808	69	2 047	2.96	(NA)	(NA)	12 054	56	8.50
COLUMBUS SMSA									
1977 CENSUS.....	14 384	66	1 947	6.63	49	73	30 854	47	24.17
1976 ASM.....	13 230	66	1 937	6.07	50	73	29 102	45	22.69
1975 ASM.....	12 178	65	1 924	5.61	51	74	25 038	49	19.89
1974 ASM.....	11 006	68	1 911	5.19	50	74	23 995	46	18.50
1973 ASM.....	10 179	69	1 932	4.67	46	72	21 304	48	16.01
1972 CENSUS.....	9 476	67	1 954	4.30	45	72	19 426	49	14.73
1971 ASM.....	8 926	68	1 945	4.07	45	71	18 813	47	14.17
1970 ASM.....	8 514	70	1 990	3.81	46	73	16 384	52	11.84
1969 ASM.....	8 208	70	2 013	3.63	47	75	15 992	51	11.40
1968 ASM.....	7 847	68	2 014	3.45	49	77	14 280	55	10.41
1967 CENSUS.....	7 430	68	2 004	3.23	47	75	14 002	53	10.28
1966 ASM.....	7 120	68	2 020	3.14	47	75	13 714	52	10.02
1965 ASM.....	6 828	69	2 030	3.00	47	75	13 280	51	9.51
1964 ASM.....	6 626	68	2 041	2.92	47	75	12 922	51	9.37
1963 CENSUS.....	6 368	67	1 996	2.83	(NA)	(NA)	11 994	53	8.97
DAYTON SMSA									
1977 CENSUS.....	16 415	68	2 063	7.45	48	77	30 618	54	21.68
1976 ASM.....	14 995	69	2 023	6.91	48	77	27 825	54	19.87
1975 ASM.....	13 479	67	1 973	6.26	49	79	21 924	61	16.60
1974 ASM.....	12 042	68	1 978	5.62	48	78	21 722	55	16.04
1973 ASM.....	11 706	70	2 054	5.34	46	77	20 558	57	14.31
1972 CENSUS.....	11 285	66	2 037	5.10	45	79	18 122	62	13.45
1971 ASM.....	10 057	68	1 965	4.77	44	77	16 158	62	12.03
1970 ASM.....	9 530	71	2 014	4.43	42	77	16 213	59	11.37
1969 ASM.....	9 231	74	2 111	4.07	43	76	16 241	57	10.42
1968 ASM.....	8 704	74	2 076	3.88	44	77	14 882	58	9.69
1967 CENSUS.....	8 103	75	1 782	4.25	42	74	15 122	54	11.27
1966 ASM.....	7 983	76	2 158	3.44	44	77	14 239	56	8.71
1965 ASM.....	7 575	76	2 137	3.33	37	69	13 615	56	8.43
1964 ASM.....	7 176	75	2 122	3.17	43	74	13 199	54	8.29
1963 CENSUS.....	6 900	75	2 087	3.08	(NA)	(NA)	12 652	55	8.08
TOLEDO, OHIO-MICH., SMSA									
1977 CENSUS.....	16 226	70	1 968	7.51	61	80	34 551	47	24.95
1976 ASM.....	15 060	71	2 000	6.88	59	78	33 956	44	23.80
1975 ASM.....	13 283	70	1 917	6.34	58	76	30 544	43	22.73
1974 ASM.....	12 260	69	1 969	5.75	59	80	25 277	49	18.54
1973 ASM.....	11 645	72	2 019	5.19	55	79	22 554	52	15.61
1972 CENSUS.....	10 821	70	2 014	4.85	55	79	20 602	53	14.58
YOUNGSTOWN-WARREN SMSA									
1977 CENSUS.....	17 207	79	1 919	8.52	60	81	32 952	52	21.75
1976 ASM.....	15 138	79	1 871	7.69	61	81	30 331	50	20.61
1975 ASM.....	13 898	79	1 859	7.05	63	82	27 506	51	18.76
1974 ASM.....	12 698	81	1 915	6.30	58	77	29 367	43	18.85
1973 ASM.....	12 050	81	2 039	5.68	59	81	23 252	52	14.06
1972 CENSUS.....	11 002	80	1 955	5.23	61	82	20 202	54	12.93
1971 ASM.....	9 975	79	1 956	4.80	57	77	20 866	48	13.49
1970 ASM.....	8 929	79	1 909	4.34	58	82	15 611	57	10.39
1969 ASM.....	8 636	80	2 046	3.89	58	79	17 796	49	10.83
1968 ASM.....	8 207	81	2 041	3.71	58	79	16 697	49	10.15
1967 CENSUS.....	7 620	80	2 023	3.49	60	80	15 205	50	9.37
1966 ASM.....	7 577	81	1 999	3.58	59	81	14 244	53	8.81
1965 ASM.....	7 375	81	2 008	3.47	57	80	13 870	53	8.51
1964 ASM.....	7 176	80	2 012	3.38	57	80	13 809	52	8.53
1963 CENSUS.....	6 905	80	1 987	3.27	(NA)	(NA)	12 991	53	8.16

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹	number ----	17 354	16 390
With 1 to 19 employees	do ----	10 620	9 903
With 20 to 99 employees	do ----	4 404	4 222
With 100 employees or more	do ----	2 324	2 265
All employees, average for year ¹	1,000 ----	1 331.2	1 346.3
Payroll for year, all employees ¹	mil. dollars --	20 356.0	13 810.0
Production workers:			
Average for year	1,000 ----	924.4	940.0
March	do ----	903.4	917.0
May	do ----	927.6	932.8
August	do ----	922.7	939.1
November	do ----	942.7	971.5
Hours	millions ----	1 838.5	1 887.8
January to March	do ----	439.1	456.7
April to June	do ----	471.3	474.5
July to September	do ----	461.5	464.5
October to December	do ----	466.6	492.0
Wages	mil. dollars --	12 907.5	8 717.0
Cost of materials, etc. ²	do ----	52 736.3	28 285.6
Materials, parts, containers, etc., consumed	do ----	46 541.7	24 976.6
Resales	do ----	2 729.7	1 779.0
Fuels consumed	do ----	1 442.4	555.1
Purchased electric energy	do ----	1 217.1	464.2
Contract work	do ----	805.4	510.7
Value of shipments, including resales ²	do ----	95 234.7	55 025.4
Value of resales	do ----	3 620.0	2 373.5
Value added by manufacture	do ----	43 054.7	27 171.0
Manufacturers' inventories:			
Beginning of year	do ----	12 139.4	7 441.6
Finished products	do ----	3 735.9	2 490.0
Work in process	do ----	3 954.1	2 392.4
Materials, supplies, fuel, etc.	do ----	4 449.4	2 559.1
End of year	do ----	13 037.2	7 871.0
Finished products	do ----	4 009.0	2 625.8
Work in process	do ----	4 232.0	2 588.6
Materials, supplies, fuel, etc.	do ----	4 796.2	2 656.6
Capital expenditures for plant and equipment	do ----	2 930.6	1 786.1
New capital expenditures	do ----	2 790.7	1 695.4
New buildings and other structures	do ----	455.6	314.2
New machinery and equipment	do ----	2 335.1	1 381.2
Used capital expenditures	do ----	139.8	90.7

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Including central administrative offices and auxiliaries (for definition, see appendix B).

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	426.5	3
Beginning of year.....	29,390.0	1	Buildings and other structures.....	174.4	3
New capital expenditures.....	2,828.7	1	Machinery and equipment.....	251.6	4
Used capital expenditures.....	167.3	12			
Retirements.....	1,106.1	2	Depreciation charges during 1977:		
End of year.....	31,279.9	1	Total.....	1,850.0	1
Buildings and other structures:			Buildings and other structures.....	268.0	2
Beginning of year.....	7,112.8	1	Machinery and equipment.....	1,582.0	1
New capital expenditures.....	445.0	2			
Used capital expenditures.....	(66.5)	30	Supplemental labor costs:		
Retirements.....	144.9	3	Total.....	4,412.4	1
End of year.....	7,479.3	1	Legal costs.....	1,447.2	1
Machinery and equipment:			Voluntary costs.....	2,965.2	1
Beginning of year.....	22,276.9	1			
New capital expenditures.....	2,383.7	1	Purchased services:		
Automobiles, trucks, etc., for highway use...	104.1	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	38.3	(NA)	Buildings and other structures.....	126.0	8
All other.....	1,995.7	(NA)	Response coverage ratio (percent).....	62	(X)
New machinery and equipment, n.s.k.....	245.6	(NA)	Machinery.....	(599.8)	44
Used capital expenditures.....	100.8	5	Response coverage ratio (percent).....	61	(X)
Retirements.....	961.4	2	Cost of purchased communication services.....	(167.6)	79
End of year.....	23,800.1	1	Response coverage ratio (percent).....	66	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures. Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972		
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital ex- penditures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
Ohio -----	-	17 354	6 728	1 331.2	20 356.0	924.4	1 838.5	12 907.5	43 054.7	52 736.3	95 234.7	2 790.7	1 346.3	27 171.0
STANDARD CONSOLIDATED STATISTICAL AREAS														
Cincinnati-Hamilton, Ohio-Ky.-Ind. -----	-	2 373	958	189.8	2 944.3	117.7	238.4	1 618.9	6 608.2	7 196.2	13 769.5	357.1	185.5	4 145.4
Portion in Ohio -----	-	2 127	860	175.2	2 751.5	107.4	217.8	1 492.7	6 159.3	6 732.5	12 868.7	335.4	170.6	3 803.5
Portion in Indiana -----	E1	32	13	3.4	49.0	2.8	5.8	38.2	187.0	121.7	307.6	6.4	3.9	159.1
Portion in Kentucky -----	E2	214	85	11.0	143.8	7.6	14.8	88.1	261.9	342.0	593.2	15.3	11.0	182.8
Cleveland-Akron-Lorain -----	-	5 877	2 184	388.7	6 278.6	256.4	520.3	3 744.5	11 966.8	14 173.4	25 950.7	793.7	399.1	7 925.5
STANDARD METROPOLITAN STATISTICAL AREAS														
Akron -----	-	1 061	406	83.5	1 305.4	50.1	99.4	693.4	2 014.2	2 205.8	4 158.1	156.8	94.4	1 686.2
Canton -----	-	603	235	57.2	856.4	41.8	80.8	601.5	1 897.5	2 405.6	4 262.4	121.2	57.6	1 151.6
Cincinnati, Ohio-Ky.-Ind. -----	-	2 135	856	160.2	2 435.8	97.2	197.9	1 289.5	5 645.9	6 043.1	11 647.9	(D)	157.6	3 561.2
Portion in Ohio -----	-	1 889	758	145.8	2 243.0	86.9	177.3	1 163.3	5 197.0	5 579.4	10 747.1	277.5	142.7	3 219.3
Portion in Indiana -----	E1	32	13	3.4	49.0	2.8	5.8	38.2	187.0	121.7	307.6	(D)	3.9	159.1
Portion in Kentucky -----	E1	214	85	11.0	143.8	7.6	14.8	88.1	261.9	342.0	593.2	15.3	11.0	182.8
Cleveland -----	-	4 475	1 654	265.4	4 262.8	175.9	357.3	2 524.1	8 105.9	8 600.4	16 599.6	543.1	268.9	5 220.9
Columbus -----	-	1 315	500	96.2	1 384.3	63.1	122.8	814.7	2 969.4	2 830.7	5 772.3	165.4	102.4	1 989.2
Dayton -----	-	1 302	506	106.5	1 748.3	72.9	150.4	1 120.4	3 261.0	2 975.8	6 159.8	266.8	118.8	2 152.9
Hamilton-Middletown -----	-	238	102	29.4	508.5	20.5	40.5	329.4	962.3	1 153.1	2 121.6	57.9	28.5	585.5
Huntington-Ashland, W. Va.-Ky.-Ohio -----	-	339	125	28.6	438.8	20.9	40.9	288.1	754.3	1 982.8	2 728.9	233.7	25.7	530.1
Portion in Ohio -----	E1	52	16	3.1	40.9	2.5	5.1	31.7	83.4	144.8	229.1	15.7	3.2	76.0
Portion in West Virginia -----	E1	199	71	14.8	199.1	11.2	21.9	138.0	381.2	675.5	1 060.6	47.7	14.0	230.1
Portion in Kentucky -----	-	88	38	11.7	198.8	7.3	13.9	118.4	289.8	1 162.5	1 439.2	170.2	8.5	224.0
Lima -----	-	330	138	30.6	451.6	23.4	47.2	322.9	1 216.0	2 487.4	3 644.9	76.4	28.2	668.0
Lorain-Elyria -----	-	341	124	39.8	710.5	30.4	63.5	521.0	1 846.8	3 367.2	5 193.0	93.8	36.1	1 033.1
Mansfield -----	-	207	89	20.9	311.7	15.3	31.1	219.9	617.3	839.3	1 453.4	61.3	22.6	478.4
Parkersburg-Marietta, W. Va.-Ohio -----	-	182	63	15.8	222.4	11.2	21.7	139.7	724.9	779.3	1 479.2	85.3	18.0	482.2
Portion in Ohio -----	-	83	28	6.2	84.3	4.3	8.2	52.9	228.0	375.0	587.5	43.4	5.9	139.1
Portion in West Virginia -----	-	99	35	9.6	138.1	6.9	13.5	86.8	496.9	404.3	891.7	41.9	12.1	343.1
Springfield -----	-	262	100	18.3	245.0	13.0	24.7	169.2	550.9	676.0	1 193.5	32.6	20.1	390.5
Stauberville-Weirton, Ohio-W. Va. -----	-	138	67	26.7	497.6	21.2	41.0	382.6	955.0	1 643.9	2 601.6	67.9	29.0	705.7
Portion in Ohio -----	-	68	28	7.9	147.4	6.2	11.9	113.6	400.6	657.4	1 058.9	21.2	9.3	263.7
Portion in West Virginia -----	-	70	39	18.7	350.3	15.0	29.1	269.0	554.4	986.5	1 542.8	46.7	19.7	442.0
Toledo, Ohio-Mich. -----	-	1 247	455	92.7	1 504.2	65.2	128.4	963.6	3 203.0	5 007.8	8 169.9	259.7	91.2	1 878.9
Portion in Ohio -----	-	1 107	402	83.3	1 335.2	58.4	113.4	847.4	2 871.2	4 651.2	7 482.9	180.7	82.8	1 689.6
Portion in Michigan -----	-	140	53	9.4	169.0	6.8	15.0	116.1	331.8	356.5	687.0	78.9	8.4	189.3
Wheeling, W. Va.-Ohio -----	-	156	68	13.0	173.5	9.8	17.9	117.2	427.3	552.0	978.6	40.3	13.3	202.8
Portion in Ohio -----	-	64	22	4.1	53.1	3.2	5.8	39.3	140.5	226.6	368.2	5.4	5.2	69.3
Portion in West Virginia -----	E1	92	46	9.0	120.4	6.6	12.1	77.8	286.9	325.3	610.4	34.9	8.1	133.5
Youngstown-Warren -----	-	620	258	79.5	1 368.2	62.8	120.4	1 026.7	2 620.2	3 996.0	6 612.1	131.0	86.6	1 749.5
COUNTIES														
Adams -----	-	29	5	1.0	10.2	0.9	1.6	6.9	23.8	34.3	57.9	2.1	0.8	14.3
Allen -----	-	158	72	16.8	272.8	12.6	26.1	197.0	795.5	1 877.1	2 620.4	51.6	15.5	400.5
Ashland -----	-	81	34	7.7	90.4	5.4	11.2	57.3	215.4	229.4	445.9	7.1	7.4	128.3
Ashtabula -----	-	167	77	12.8	164.2	10.2	19.0	118.8	388.6	456.6	843.5	41.0	12.6	235.8
Athens -----	-	44	12	1.3	13.5	1.0	1.8	8.7	31.1	25.0	53.6	1.4	1.3	18.9
Auglaize -----	-	75	32	6.6	83.7	5.0	9.6	56.3	199.7	269.8	464.8	14.3	5.8	100.4
Belmont -----	-	64	22	4.1	53.1	3.2	5.8	39.3	140.5	226.6	368.2	5.4	5.2	69.3
Brown -----	-	23	8	1.1	11.5	0.8	1.6	8.2	16.9	23.0	46.2	0.8	0.7	11.5
Butler -----	-	238	102	29.4	508.5	20.5	40.5	329.4	962.3	1 153.1	2 121.6	57.9	28.5	585.5
Carroll -----	-	36	18	1.5	16.2	1.2	2.2	11.1	40.8	45.5	85.4	1.8	1.2	20.3
Champaign -----	-	50	17	3.0	31.6	2.4	4.7	24.1	113.2	75.6	180.2	5.2	3.0	71.7
Clark -----	-	212	83	15.3	213.4	10.6	20.1	145.1	437.7	600.4	1 013.3	27.4	17.2	318.8
Clermont -----	E1	83	15	2.4	29.2	1.6	3.0	16.0	63.6	79.9	141.4	3.1	1.9	52.2
Clinton -----	-	54	29	4.2	45.4	3.3	6.6	32.6	109.7	92.5	199.9	6.4	3.0	54.3
Columbiana -----	-	204	77	10.5	127.6	7.9	14.9	85.6	247.4	184.7	422.4	9.4	10.2	143.4
Coshocton -----	-	55	24	5.2	74.2	3.8	7.7	47.9	163.6	200.8	362.8	18.0	5.3	112.2
Crawford -----	-	104	43	9.5	131.8	6.7	13.1	85.9	261.6	275.4	536.8	9.1	10.6	189.5
Cuyahoga -----	-	3 643	1 356	226.1	3 737.6	149.5	305.7	2 229.0	7 029.9	7 557.6	14 494.6	465.8	233.9	4 625.5
Darke -----	-	78	27	3.7	41.9	3.1	5.9	32.0	116.9	129.6	243.6	6.6	2.9	58.6
Defiance -----	-	54	22	7.8	142.0	6.4	13.1	114.9	330.7	241.4	565.6	(D)	7.3	154.4
Delaware -----	-	63	28	4.4	54.5	3.2	6.2	36.0	160.6	176.0	331.0	4.2	4.3	94.9
Erie -----	-	137	58	12.0	193.5	9.1	18.7	140.5	419.7	501.2	916.3	34.9	11.7	254.6
Fairfield -----	-	101	46	11.7	138.7	8.2	16.3	89.6	288.8	217.9	495.9	20.3	10.9	154.0
Fayette -----	-	40	17	2.8	33.9	2.0	4.0	22.6	84.5	112.9	194.8	3.5	2.2	39.4
Franklin -----	-	1 095	396	74.1	1 110.9	47.0	91.5	634.4	2 292.0	2 150.8	4 432.2	124.3	80.3	1 580.6
Fulton -----	-	103	47	6.9	76.1	5.6	10.6	53.6	190.7	291.0	479.2	10.3	5.7	94.7
Gallia -----	-	24	8	1.0	11.6	0.8	1.6	8.2	32.2	38.1	67.6	2.5	0.7	13.1
Geauga -----	-	151	50	6.5	76.0	4.6	8.7	43.8	147.6	160.4	304.7	8.6	4.7	70.0
Greene -----	-	104	40	4.0	53.3	2.9	5.7	34.7	112.2	130.2	241.6	5.6	3.4	63.0
Guernsey -----	E2	55	26	5.2	56.0	3.4	6.3	32.9	147.6	187.7	334.5	5.9	4.4	70.6
Hamilton -----	-	1 709	703	139.6	2 169.0	82.6	169.0	1 120.4	5 043.1	5 376.1	10 392.7	267.6	137.4	3 117.0
Hancock -----	-	92	42	8.9	129.3	5.7	11.1	67.2	300.5	441.4	739.4	19.4	7.6	164.2
Hardin -----	-	51	21	3.2	40.6	2.5	4.6	29.7	119.5	139.2	262.2	5.5	3.1	63.2
Harrison -----	-	23	6	1.0	7.7	0.9	1.5	6.4	12.4	8.8	20.9	0.7	1.1	10.0
Henry -----	-	55	19	3.9	46.5	3.2	6.4	35.8	208.7	274.1	482.2	6.0	3.6	120.5
Highland -----	-	37	20	3.2	29.									

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972			
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)							
COUNTIES—Con.															
Lake	-	486	171	25.0	361.8	16.0	31.6	197.1	735.0	650.9	1 379.9	57.2	23.6	418.1	
Lawrence	-	52	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	76.0	
Licking	-	133	46	10.6	152.2	8.1	15.4	107.6	375.0	346.0	712.2	28.9	10.1	212.2	
Logan	-	54	20	3.8	45.0	3.1	6.0	33.5	88.9	76.8	162.3	6.0	3.0	52.4	
Lorain	-	341	124	39.8	710.5	30.4	63.5	521.0	1 846.8	3 367.2	5 193.0	93.8	36.1	1 033.1	
Lucas	-	767	272	59.9	1 007.2	39.5	76.5	599.2	2 225.9	3 780.4	5 971.8	133.0	60.2	1 220.5	
Madison	-	28	15	1.5	14.7	1.2	2.2	10.6	41.5	39.4	80.9	0.8	2.3	40.3	
Mahoning	-	357	136	33.2	521.2	25.6	47.4	376.2	883.7	1 461.1	2 358.0	39.0	36.2	695.8	
Marion	-	100	44	12.1	173.0	9.4	16.9	124.7	448.6	634.9	1 096.8	21.7	10.2	244.0	
Medina	-	195	77	7.8	87.4	5.8	11.3	54.2	193.4	231.6	420.4	13.5	6.6	107.3	
Meigs	-	15	5	0.3	2.4	0.2	0.4	1.7	6.7	4.5	11.1	0.2	0.3	3.4	
Mercer	-	63	20	5.3	60.7	4.3	8.2	47.1	120.0	193.5	310.4	4.8	4.9	89.3	
Miami	-	177	80	15.0	189.1	10.0	20.6	114.9	388.9	474.1	847.3	18.9	12.4	217.3	
Monroe	-	17	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Montgomery	-	962	370	85.5	1 484.3	58.5	121.2	956.5	2 696.9	2 309.8	4 947.3	239.0	101.2	1 840.7	
Morgan	-	19	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Morrow	-	23	7	1.5	17.8	1.1	2.3	12.1	38.0	33.5	71.1	1.0	1.5	26.0	
Muskingum	-	98	41	8.1	91.6	6.6	12.7	88.9	219.7	277.0	495.8	15.2	8.2	149.0	
Noble	-	11	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	11.7	
Ottawa	-	75	21	3.0	40.2	2.4	4.6	29.8	75.0	118.8	193.7	5.6	3.2	54.0	
Paulding	-	31	10	1.3	16.6	1.1	2.2	13.1	25.2	39.5	65.8	1.9	1.3	18.7	
Perry	-	42	18	1.9	19.2	1.7	3.3	14.5	35.9	29.2	63.9	2.8	1.5	17.7	
Pickaway	-	28	15	4.6	65.6	3.4	6.7	44.0	186.6	246.7	432.2	15.6	4.6	119.5	
Pike	-	26	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	51.8	
Portage	-	194	83	8.0	102.7	5.8	11.7	64.3	228.7	204.7	431.5	12.7	9.2	183.8	
Preble	-	59	16	2.0	21.5	1.5	2.9	14.3	62.9	61.6	123.7	3.3	1.7	32.0	
Putnam	-	47	12	2.8	34.6	2.4	4.9	29.0	88.0	104.9	174.7	4.0	(D)	(D)	
Richland	-	207	89	20.9	311.7	15.3	31.1	219.9	617.3	839.3	1 453.4	61.3	22.6	478.4	
Ross	-	61	19	5.7	82.5	4.0	8.5	55.1	238.8	298.7	535.2	(D)	4.3	101.1	
Sandusky	-	114	53	9.2	124.1	7.5	15.2	94.6	406.7	506.3	912.5	23.2	8.3	231.3	
Scioto	-	69	17	2.9	44.9	2.1	4.1	31.3	106.4	196.7	316.8	10.2	5.2	96.0	
Seneca	-	81	38	10.1	145.1	7.8	15.6	105.3	332.2	306.9	630.6	25.3	8.8	198.3	
Shelby	-	89	42	8.9	86.8	6.9	13.6	63.3	195.4	290.2	488.2	11.5	8.0	132.7	
Stark	-	567	217	55.8	840.3	40.6	78.6	590.4	1 856.7	2 360.1	4 177.0	119.4	58.4	1 131.4	
Summit	-	867	323	75.6	1 202.6	44.3	87.7	635.1	1 785.5	2 001.1	3 726.7	144.1	85.3	1 502.4	
Trumbull	-	263	122	46.3	847.1	37.2	73.1	650.5	1 736.5	2 534.9	4 254.1	92.0	50.4	1 053.7	
Tuscarawas	-	189	80	8.8	115.7	5.8	12.9	79.8	265.4	361.3	525.5	16.7	8.4	175.5	
Union	-	39	21	4.0	54.4	2.5	4.7	28.8	262.1	209.5	483.1	5.7	2.0	93.9	
Van Wert	-	50	22	4.4	60.6	3.3	6.6	40.5	152.9	235.8	385.1	6.5	4.0	87.4	
Vinton	-	21	5	0.7	6.4	0.6	1.1	5.0	15.6	15.0	30.5	1.0	0.7	5.7	
Warren	-	97	40	3.8	44.8	2.7	5.3	27.0	80.3	123.4	213.1	6.7	3.4	50.1	
Washington	-	83	28	6.2	84.3	4.3	8.2	52.9	228.0	375.0	587.5	43.4	5.9	139.1	
Wayne	-	180	84	13.4	174.8	9.9	19.7	117.2	397.5	548.2	942.2	43.4	12.2	222.2	
Williams	-	98	50	7.9	99.2	5.9	11.3	64.8	228.7	288.5	496.5	15.0	7.2	148.0	
Wood	-	162	62	13.5	211.7	11.0	21.6	164.9	379.6	461.0	838.2	31.7	13.7	320.4	
Wyandot	-	51	21	3.4	32.1	2.9	5.4	25.3	72.6	85.0	157.0	8.1	2.3	39.5	
CITIES															
Akron	-	376	139	44.4	736.5	22.6	44.9	339.1	908.4	1 029.0	1 883.4	73.2	50.6	935.8	
Alliance	-	84	29	5.5	82.8	3.9	7.8	53.6	128.6	126.8	259.1	4.6	5.7	96.8	
Amberley	-	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Amherst	-	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Archbold	-	37	18	2.6	30.0	2.0	3.9	20.6	88.8	156.1	244.3	2.6	1.9	42.4	
Ashland	-	65	30	5.4	62.4	3.8	7.8	39.7	156.1	155.7	310.0	6.1	5.0	80.5	
Ashtabula	-	48	20	3.9	51.5	3.0	5.6	36.8	98.7	98.3	195.0	7.5	4.7	91.7	
Athens	-	12	5	0.7	8.2	0.5	0.9	5.2	19.4	16.1	33.0	0.8	0.7	11.9	
Aurora	-	12	8	0.9	11.8	0.6	1.2	6.6	30.8	34.8	64.4	(D)	0.6	9.8	
Austintown (U)	-	22	11	3.2	52.3	2.4	4.7	35.9	127.0	120.4	243.1	3.0	5.9	96.7	
Avon Lake	-	22	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Barberton	-	61	25	9.7	144.5	6.0	11.4	81.1	289.6	325.5	624.9	23.8	12.9	198.0	
Beachwood	-	41	10	0.7	10.2	0.3	0.6	3.3	15.5	15.6	30.7	1.1	0.6	9.0	
Bedford	-	61	23	2.5	35.7	1.8	3.5	22.6	69.5	57.4	125.8	3.1	3.0	41.6	
Bedford Heights	-	63	35	4.6	56.7	3.5	7.0	37.4	154.1	165.2	318.3	7.0	3.9	68.1	
Bellaire	-	14	5	0.9	9.0	0.8	1.4	6.7	15.5	9.9	25.3	2.9	1.0	8.4	
Bellefontaine	-	22	11	2.9	35.9	2.3	4.4	26.5	68.8	58.8	126.9	4.3	2.4	42.4	
Bellevue	-	23	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	51.9	
Belpre	-	8	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Berea	-	34	11	0.8	11.3	0.6	1.2	7.5	24.2	19.1	43.0	2.1	1.0	19.4	
Blanchester	-	8	7	0.5	6.0	0.4	0.7	3.5	13.6	10.9	24.7	(D)	(NA)	(NA)	
Blue Ash	-	75	45	5.8	70.5	4.3	8.2	44.7	162.6	152.6	312.8	11.7	4.3	77.2	
Bluffton	-	12	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	9.9	
Boardman (U)	-	41	16	2.4	36.0	1.1	2.1	11.8	41.0	53.7	94.4	2.9	(D)	(D)	
Bowling Green	-	28	13	1.1	13.5	0.8	1.6	8.2	30.3	31.8	61.9	2.6	1.7	30.0	
Brecksville	-	30	13	1.1	18.8	0.5	0.9	5.3	21.8	12.5	34.3	0.4	0.8	6.4	
Brooklyn	-	63	32	4.7	85.4	3.0	6.5	44.6	172.7	137.7	301.7	7.5	12.0	328.8	
Brook Park	-	72	32	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11.3	316.9	
Brookville	-	15	8	0.7	7.0	0.6	1.0	5.0	13.7	19.1	32.8	1.3	(NA)	(NA)	
Bryan	-	44	21	4.8	59.5	3.4	6.5	38.5	138.6	140.6	278.4	10.1	4.1	82.3	
Bucyrus	-	38	13	2.4	29.1	1.9	3.7	21.9	75.0	68.1	144.1	2.0	3.9	78.1	
Cambridge	-	41	19	3.9	44.3	2.3	4.1	24.0	125.5	145.9	273.2	4.3	3.0	46.0	
Campbell	-	5	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Canton	-	207	78	25.9	431.9	18.6	35.8	304.8	940.3	858.8	1 758.6	66.0	25.5	484.2	
Carey	-	13	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	13.6	

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E1	1977										1972			
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)							
CITIES—Con.															
Carrollton	-	18	8	0.6	5.4	0.5	0.8	3.7	12.8	13.8	26.2	0.4	(NA)	(NA)	
Celina	-	28	7	3.0	28.9	2.5	4.7	24.1	57.9	110.5	163.9	2.2	2.4	49.4	
Centerville	E1	36	9	0.6	7.2	0.4	0.7	4.1	12.6	11.8	24.2	1.0	(NA)	(NA)	
Chardon	-	26	12	1.6	20.0	1.2	2.4	12.6	57.8	29.8	87.0	2.1	1.1	17.5	
Chillicothe	-	35	12	5.2	77.5	3.7	7.8	51.5	220.2	266.7	484.5	(D)	(D)	(D)	
Cincinnati	-	942	367	64.4	860.1	33.1	86.5	410.9	1 653.0	1 644.0	3 285.1	79.5	68.2	1 030.3	
Circleville	-	16	8	1.8	23.4	1.5	2.8	17.5	79.8	128.9	208.3	5.5	2.4	67.8	
Cleveland	-	2 099	765	120.8	1 847.9	78.9	156.3	1 075.4	3 523.5	3 634.0	7 159.7	149.1	131.2	2 457.0	
Cleveland Heights	-	30	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	4.5	
Clyde	-	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Coldwater	-	12	6	1.7	25.8	1.3	2.5	19.0	49.7	47.1	98.2	2.1	1.7	29.8	
Columbiana	-	28	10	1.7	23.8	1.3	2.4	15.5	47.4	36.8	81.1	1.8	1.7	26.1	
Columbus	-	793	282	55.5	825.3	34.3	86.6	455.2	1 732.3	1 667.5	3 399.0	86.8	62.1	1 161.5	
Conneaut	-	22	16	2.3	23.3	1.8	3.1	16.5	57.0	42.7	100.2	5.6	1.7	29.0	
Coshocton	-	37	17	4.7	69.2	3.3	7.1	44.8	155.6	190.4	344.4	17.1	4.4	83.6	
Crestline	-	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	32.6	
Cuyahoga Falls	-	67	22	2.2	27.2	1.7	3.3	19.7	66.2	60.8	123.4	3.3	6.1	73.3	
Dayton	-	488	189	57.1	1 016.1	40.0	82.7	672.2	1 831.7	1 537.4	3 319.1	145.9	72.4	1 457.5	
Defiance	-	35	15	6.8	128.9	5.6	11.5	105.5	288.2	219.3	501.0	(D)	(D)	(D)	
Delaware	-	32	19	3.7	47.4	2.7	5.2	31.8	98.2	110.2	204.6	3.9	3.0	54.5	
Delphos	-	24	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	12.2	
Dover	-	34	20	2.2	33.6	1.4	2.9	20.7	75.7	143.2	217.6	6.6	2.2	45.1	
East Cleveland	-	37	15	3.6	79.9	1.3	2.3	12.5	40.1	28.6	68.6	1.4	3.8	30.1	
Eastlake	-	84	23	2.2	29.2	1.6	3.1	16.1	46.3	33.2	78.1	2.7	1.9	48.5	
East Liverpool	-	27	10	1.2	11.6	1.0	1.7	7.7	22.8	12.2	35.1	0.6	1.4	15.9	
East Palestine	-	29	11	1.1	11.9	0.8	1.6	8.6	16.4	16.2	32.5	1.0	1.1	15.5	
Eaton	-	20	8	1.3	13.6	1.0	1.9	9.6	32.5	25.4	57.2	2.1	1.1	20.8	
Elmwood Place	-	12	8	1.4	17.6	1.0	1.7	10.6	35.2	19.2	54.4	(D)	1.0	23.7	
Elyria	-	119	50	9.6	139.7	6.0	12.5	77.2	325.3	278.0	589.6	16.0	9.0	191.3	
Euclid	-	142	67	17.4	324.5	11.5	23.4	192.3	608.0	586.5	1 181.2	41.0	16.4	373.1	
Fairfax	-	28	15	1.7	21.7	1.1	2.1	11.5	37.9	41.6	79.8	1.8	1.5	21.7	
Fairfield	-	30	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Findlay	-	69	30	7.7	113.9	4.7	9.2	56.6	261.0	331.0	589.3	14.8	6.7	139.4	
Forest Park	-	18	8	0.6	7.1	0.5	0.9	4.1	12.7	20.9	33.6	1.8	(NA)	(NA)	
Fostoria	-	37	22	7.1	113.8	5.6	11.2	86.0	247.8	269.3	513.6	(D)	5.9	144.4	
Franklin	-	21	11	0.7	9.6	0.5	1.2	6.8	21.2	29.0	50.1	1.1	1.6	22.3	
Fremont	-	76	35	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.3	102.1	
Galion	-	42	20	3.9	53.2	2.4	4.5	26.7	99.4	78.9	179.4	2.2	5.0	74.1	
Gallipolis	-	14	5	0.5	6.4	0.4	0.8	4.6	16.6	24.2	40.4	(D)	(NA)	(NA)	
Garfield Heights	E1	58	18	1.8	23.8	1.3	2.6	15.1	48.7	54.8	100.9	4.0	1.5	31.3	
Geneva	-	13	7	0.7	9.2	0.6	1.0	7.1	17.3	13.3	30.6	0.4	0.9	14.6	
Girard	-	17	9	0.9	13.9	0.7	1.4	9.2	35.7	55.8	89.5	1.2	1.1	17.2	
Greenfield	-	13	9	1.4	13.8	1.1	2.4	11.8	32.6	36.3	68.7	0.9	1.2	19.3	
Greenville	-	35	15	2.6	30.2	2.2	4.3	23.9	97.5	90.3	183.2	5.6	2.2	48.8	
Grove City	-	12	5	0.9	6.6	0.7	1.2	4.6	13.8	10.1	24.2	0.4	(NA)	(NA)	
Hamilton	-	96	39	8.2	112.9	5.5	10.7	67.7	190.0	230.1	425.4	8.6	5.8	115.4	
Harrison	-	16	7	2.5	20.6	2.1	3.5	15.8	52.8	65.4	117.1	1.1	1.3	22.3	
Heath	-	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Highland Heights	-	18	10	2.5	34.1	1.4	2.5	15.0	52.2	41.3	94.7	(D)	1.7	26.1	
Hilliard	-	17	8	1.2	14.3	0.8	1.6	8.6	37.6	30.3	65.4	1.6	1.0	28.7	
Hillsboro	-	21	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	19.7	
Hubbard	-	11	4	0.6	7.2	0.5	0.8	4.8	15.1	22.2	36.9	(D)	(D)	(D)	
Hudson	-	20	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	16.5	
Independence	-	27	18	1.9	35.4	0.7	1.4	9.3	23.6	16.6	39.8	2.3	2.0	15.7	
Ironton	-	20	6	1.4	18.2	1.2	2.0	14.7	25.1	23.7	49.6	(D)	2.3	46.6	
Jackson	-	18	7	1.0	9.3	0.9	1.7	7.2	28.5	22.9	52.2	2.3	0.8	17.8	
Kent	-	60	24	2.3	33.0	1.7	3.4	21.3	64.3	36.8	100.1	2.6	3.5	57.2	
Kenton	-	33	15	1.4	13.7	1.1	2.1	9.7	53.6	66.3	117.2	(D)	2.3	49.6	
Kettering	-	54	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Lakewood	-	66	22	2.0	36.1	1.2	2.1	12.0	74.5	56.2	126.5	3.5	1.6	42.2	
Lancaster	-	60	29	9.7	116.1	6.8	13.6	75.1	240.4	160.6	393.6	17.9	9.3	134.5	
Lebanon	-	20	8	0.5	4.3	0.4	0.7	2.8	7.2	10.2	17.3	0.5	(NA)	(NA)	
Lexington	-	8	5	0.7	5.0	0.5	1.1	3.4	9.1	10.2	19.0	0.4	(D)	(D)	
Lima	-	67	32	7.6	109.2	5.4	10.5	73.2	305.9	1 065.3	1 354.5	9.3	6.0	179.9	
Lockland	-	23	15	3.3	42.9	2.3	4.7	30.1	95.2	92.8	185.8	2.7	3.3	70.5	
Logan	-	14	8	1.3	15.8	1.1	2.3	13.0	36.3	22.6	59.0	1.3	2.4	41.9	
London	-	11	5	0.7	8.2	0.6	1.1	5.8	24.6	21.6	46.3	(D)	0.9	14.6	
Lorain	-	57	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Loudonville	-	8	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Louisville	-	10	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
McDonald	-	3	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Macedonia	E2	35	13	1.0	12.8	0.8	1.6	7.6	31.4	31.6	62.9	2.1	(NA)	(NA)	
Mansfield	-	126	56	13.1	172.2	9.2	17.9	114.5	318.6	478.0	795.6	(D)	15.8	321.1	
Maple Heights	-	43	14	1.8	26.8	1.4	2.8	18.9	64.2	83.0	142.9	3.0	2.1	39.9	
Mariemont	-	3	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Marietta	-	39	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.3	86.9	
Marion	-	57	27	9.9	145.4	7.6	13.4	103.8	373.9	540.7	927.7	16.5	7.2	147.0	
Martins Ferry	-	16	8	1.7	26.3	1.3	2.3	18.0	92.2	176.6	269.6	1.1	2.2	31.7	
Marysville	-	18	11	1.8	26.5	0.7	1.3	7.2	119.7	71.4	206.6	1.4	1.0	60.5	
Mason	-	17	8	1.3	12.5	1.1	2.0	9.7	25.8	48.5	74.2	3.6	0.6	9.3	
Massillon	-	58	28	5.3	70.6	4.0	7.6	47.5	158.3	295.9	453.0	9.2	7.3	156.2	
Maumee	-	27	10	1.8	33.0	1.3	2.7	23.3	83.5	147.5	224.9	(D)	0.7	12.5	
Mayfield	-	15	10	1.3	17.5	0.6	1.4	7.1	32.3	25.1	56.0	2.5	(NA)	(NA)	

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSEA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972		
	E ¹	All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
CITIES—Con.														
Medina	-	81	40	3.9	45.1	2.7	5.2	26.8	105.2	135.7	242.7	6.2	3.2	55.0
Mentor	-	113	34	6.3	98.0	4.3	8.3	59.9	174.5	152.0	322.3	6.7	4.1	69.9
Miamisburg	-	31	16	4.8	74.5	1.8	3.5	21.5	111.4	54.4	169.0	8.0	4.0	62.6
Middletown	-	59	34	14.3	269.8	9.8	19.1	170.2	492.8	612.0	1 110.1	32.8	13.7	290.4
Millersburg	E4	34	11	0.6	6.4	0.6	1.2	5.1	12.8	23.9	36.6	2.0	0.5	6.5
Minerva	-	18	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	36.7
Mogadore	-	11	6	0.5	5.4	0.4	0.7	3.3	11.4	8.6	19.4	0.3	0.6	23.8
Monroe	-	5	4	0.7	7.5	0.5	0.8	4.7	15.0	18.2	32.8	(D)	(D)	(D)
Montgomery	E2	12	1	0.6	1.7	(Z)	0.1	0.3	2.9	2.5	5.4	0.1	(NA)	(NA)
Montpelier	E1	18	10	1.4	19.2	1.0	2.0	12.6	44.7	73.6	118.4	2.1	1.2	30.1
Moraine	-	54	29	2.6	37.9	1.6	3.2	17.8	60.4	71.6	132.6	9.7	1.9	26.7
Mount Gilead	-	13	4	1.1	14.7	0.8	1.7	9.7	30.4	26.4	57.2	0.8	(D)	(D)
Mount Healthy	-	10	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Mount Vernon	-	29	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	31.9
Napoleon	-	31	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nelsonville	-	12	4	0.5	3.7	0.4	0.7	2.8	8.0	8.8	14.8	0.4	(NA)	(NA)
Newark	-	71	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.4	116.7
New Boston	-	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Newburgh Heights	-	12	4	0.8	13.5	0.5	1.1	9.1	24.9	28.3	52.8	1.2	1.2	21.6
Newcomertown	-	21	5	0.9	9.8	0.7	1.3	7.5	19.9	20.7	41.5	1.1	1.1	19.3
New Lexington	-	11	4	0.5	6.3	0.4	0.9	4.4	12.1	8.0	19.8	0.9	(D)	(D)
New Philadelphia	-	40	14	2.4	32.1	1.7	3.1	20.3	71.9	73.7	145.1	5.2	2.1	45.9
Niles	-	40	22	2.5	39.9	1.9	3.6	27.5	78.2	136.4	212.3	5.3	2.7	50.7
North Baltimore	-	9	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Canton	-	20	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
North Royalton	E2	38	9	0.5	5.9	0.4	0.7	4.0	11.2	8.7	20.3	1.0	(NA)	(NA)
Norton	-	12	7	0.6	7.1	0.5	0.9	5.2	12.5	13.8	26.0	0.2	(NA)	(NA)
Norwalk	-	51	26	3.8	42.8	2.8	5.6	28.6	84.5	94.8	181.3	4.5	2.8	34.5
Norwood	-	55	32	9.8	176.6	7.5	17.0	132.4	466.3	984.5	1 451.0	22.3	7.9	125.4
Oberlin	-	13	4	0.7	9.7	0.4	0.7	3.5	19.5	5.9	25.5	(D)	(NA)	(NA)
Ontario	-	10	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Orville	-	44	28	3.9	51.3	2.8	5.7	33.9	116.9	225.3	340.9	15.3	3.7	53.8
Ottawa	-	11	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Oxford	-	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Painesville	-	34	13	2.0	29.1	1.2	2.5	14.8	81.7	57.7	137.0	6.6	(D)	(D)
Parma	-	54	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Paulding	-	8	4	0.5	6.3	0.4	0.8	5.4	13.5	16.0	29.8	(D)	0.5	8.4
Perrysburg	-	18	5	0.5	8.1	0.3	0.6	3.4	23.7	27.1	50.5	0.8	4.2	89.8
Piqua	-	69	34	4.3	50.2	3.4	6.7	35.3	101.2	122.8	221.8	5.8	4.3	71.9
Port Clinton	-	25	5	1.1	14.5	1.0	1.8	11.4	23.8	30.9	54.7	1.4	1.2	18.0
Portsmouth	-	41	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Ravenna	-	41	24	2.2	24.2	1.6	3.2	15.5	50.3	46.1	98.1	1.9	2.7	48.3
Reading	-	24	10	2.9	46.6	1.2	2.4	15.0	109.1	73.7	181.9	6.8	3.3	95.1
Ripley	-	6	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	10.4
Rittman	-	14	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Rocky River	E3	37	6	0.5	8.9	0.2	0.4	2.1	8.6	7.4	16.0	0.5	0.5	5.2
Rossford	-	10	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
St. Bernard	-	27	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.5	359.1
St. Marys	-	12	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Salem	-	58	27	4.5	58.1	3.3	6.2	38.8	119.1	88.4	201.0	4.7	4.5	63.5
Sandusky	-	83	37	7.5	116.7	5.6	11.4	82.5	228.2	234.3	458.9	18.1	9.8	223.8
Sebring	-	23	14	1.7	14.0	1.4	2.6	10.8	33.8	25.5	59.0	0.7	1.5	16.3
Sharonville	-	52	24	7.7	169.7	5.9	13.4	128.4	355.9	339.9	694.1	(D)	6.3	218.0
Shelby	-	27	12	2.8	41.4	2.1	4.3	29.3	109.6	141.7	249.4	(D)	2.1	43.0
Sidney	-	51	25	7.2	89.2	5.8	10.9	50.2	163.9	218.8	381.9	9.7	8.3	107.4
Solon	-	95	58	9.0	126.5	5.4	11.1	63.8	262.3	296.4	547.0	21.6	5.3	119.0
South Euclid	-	37	8	0.8	10.5	0.5	1.0	6.0	18.9	15.1	33.7	1.3	1.1	16.7
Springdale	-	29	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Springfield	-	150	64	14.3	202.9	9.8	18.6	138.0	418.4	584.8	978.7	25.9	16.2	306.7
Steubenville	-	21	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Stow	-	34	11	1.4	20.0	1.0	2.0	11.7	40.1	38.6	77.9	3.0	1.8	35.0
Strongsville	-	48	22	2.3	33.9	1.2	2.5	16.6	62.9	49.9	111.7	2.2	1.1	23.5
Swanton	-	14	6	0.8	9.0	0.7	1.2	6.1	24.7	31.9	56.4	(D)	0.5	10.0
Tallmadge	-	34	16	1.3	17.1	0.9	1.8	9.7	32.5	23.4	56.0	1.5	1.4	22.7
Tiffin	-	36	19	4.8	63.1	3.8	7.6	44.3	140.4	119.1	256.5	8.3	5.2	100.2
Tipp City	-	35	15	2.3	27.2	1.4	3.1	17.7	58.2	47.6	103.0	2.9	1.8	24.5
Toledo	-	641	238	54.8	919.8	35.6	68.7	538.6	1 957.2	2 772.0	4 705.2	107.4	55.8	1 117.9
Toronto	-	9	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Troy	-	41	19	7.1	96.2	4.2	8.9	52.2	195.1	236.0	420.0	8.4	4.9	91.6
Twinsburg	-	34	16	5.6	96.2	4.8	9.5	77.3	156.5	141.8	295.8	8.4	(D)	(D)
Uhrichsville	-	14	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Upper Sandusky	-	31	15	1.9	19.1	1.7	3.1	15.4	40.0	46.8	87.7	(D)	1.6	23.9
Urbana	-	36	14	2.7	29.2	2.2	4.3	22.4	107.9	71.3	170.5	(D)	2.9	70.2
Vandalia	-	24	12	4.4	79.2	3.6	7.4	64.5	185.0	159.9	342.6	11.6	3.1	74.9
Van Wert	-	31	16	4.0	55.4	3.0	5.0	37.1	130.0	173.6	300.6	4.1	3.3	73.0
Wadsworth	-	37	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Walton Hills	-	31	17	5.6	113.6	4.5	9.7	92.2	199.8	247.4	442.3	18.5	(D)	(D)
Wapakoneta	-	26	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Warren	-	69	27	17.4	289.3	13.8	26.4	225.6	703.2	382.6	1 067.4	30.4	21.2	463.0
Warrensville Heights	-	53	23	2.1	32.8	1.3	2.3	12.9	36.8	79.7	116.4	1.7	2.3	39.1
Washington	-	36	15	2.6	32.3	1.9	3.7	21.4	78.9	104.0	180.4	(D)	2.0	37.0
Wauseon	-	29	15	2.0	20.7	1.6	3.1	14.7	44.2	47.8	91.1	2.8	2.3	30.6
Waverly City	-	12	5	0.7	7.1	0.6	1.3	5.5	13.7	16.6	30.0	(D)	(D)	(D)

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977										1972			
	E1	All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
CITIES—Con.														
Wellington -----	-	12	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	12.6
Wellston -----	-	14	6	1.4	13.3	1.1	2.1	9.7	25.5	77.8	103.1	1.7	0.7	12.1
Wellsville -----	-	8	3	0.5	5.6	0.4	0.9	4.3	9.7	4.4	14.1	(D)	(D)	(D)
West Carrollton -----	-	28	12	1.9	30.8	1.4	3.2	22.6	53.3	64.1	116.3	(D)	2.0	33.1
Westerville -----	-	20	12	1.0	11.5	0.6	1.1	7.3	24.0	23.8	47.2	0.9	0.8	16.1
Westlake -----	-	38	14	1.6	19.3	1.1	2.2	12.2	36.0	47.2	82.0	2.4	1.3	25.2
Wickliffe -----	-	58	19	4.8	67.7	2.6	5.3	31.5	132.1	110.8	246.1	5.0	5.6	69.8
Willard -----	-	7	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	71.7
Willoughby -----	-	114	53	5.4	70.8	3.7	7.5	41.4	152.6	107.8	260.1	5.7	4.6	70.0
Wilmington -----	-	29	13	2.7	30.4	2.1	4.2	21.6	70.2	53.7	122.1	3.2	1.7	28.6
Woodlawn -----	-	46	24	1.9	24.4	1.2	2.3	13.0	49.7	53.6	102.2	3.7	1.7	24.5
Wooster -----	-	43	21	5.7	72.7	4.1	7.7	46.9	164.2	143.5	307.7	18.2	5.3	113.6
Worthington -----	-	55	15	2.3	36.4	1.0	1.8	13.1	106.5	64.3	168.9	5.8	1.5	54.9
Xenia -----	-	26	11	0.7	7.9	0.6	1.1	5.1	18.7	29.0	47.5	1.1	0.9	17.3
Yellow Springs -----	-	8	5	1.2	16.9	0.9	1.7	11.0	28.3	13.0	41.2	1.5	0.9	14.6
Youngstown -----	-	152	53	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	17.2	376.0
Zanesville -----	-	67	29	6.5	88.1	5.2	9.9	50.0	165.9	197.8	362.8	11.1	7.3	116.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

² Including central administrative offices and auxiliaries (for definition, see appendix B).

³ Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	All Industries -----	-	17 354	6 728	1 331.2	20 356.0	924.4	1 838.5	12 907.5	43 054.7	52 736.3	95 234.7	2 790.7	1 346.3	27 171.0
20	Food and kindred products -----	-	1 094	468	85.4	858.0	42.7	86.5	521.6	2 802.3	5 479.6	8 275.7	161.8	73.5	1 737.7
201	Meat products -----	-	227	79	11.5	159.6	9.0	18.1	117.8	327.8	1 297.4	1 624.8	16.9	11.7	188.9
2011	Meat packing plants -----	-	137	44	7.1	106.5	5.4	11.1	76.5	193.8	907.7	1 101.2	8.6	7.8	127.8
2013	Sausages and other prepared meats -----	-	64	24	3.1	43.9	2.5	5.1	34.4	112.5	299.2	411.8	5.3	2.8	47.5
2016	Poultry dressing plants -----	E3	22	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2017	Poultry and egg processing -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
202	Dairy products -----	-	164	85	9.9	120.7	4.7	10.0	57.7	400.6	1 070.1	1 464.8	30.2	14.7	264.2
2022	Cheese, natural and processed -----	-	24	10	1.0	10.7	0.9	1.8	8.4	38.3	134.8	172.7	2.0	0.9	15.8
2023	Condensed and evaporated milk -----	-	11	9	1.0	13.6	0.7	1.5	10.1	85.8	187.8	272.2	(D)	0.9	39.6
2024	Ice cream and frozen desserts -----	-	32	10	0.7	8.8	0.5	0.9	4.9	19.4	49.2	68.8	1.1	0.7	14.5
2026	Fluid milk -----	-	91	52	7.0	86.1	2.6	5.6	33.4	252.1	651.6	899.7	14.6	12.0	192.4
203	Preserved fruits and vegetables -----	-	84	44	8.9	95.2	7.1	13.9	70.2	328.9	585.6	917.8	24.9	7.4	220.7
2032	Canned specialties -----	-	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2033	Canned fruits and vegetables -----	-	43	24	2.7	27.8	2.4	4.6	22.2	161.6	181.9	344.2	8.9	2.9	67.7
2035	Pickles, sauces, and salad dressings -----	-	19	5	0.6	5.9	0.4	0.8	3.7	18.5	29.7	50.6	(D)	CC	(D)
2038	Frozen specialties -----	-	15	12	3.4	33.7	2.5	4.8	23.1	14.2	173.8	188.1	10.5	1.7	55.8

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
20	Food and kindred products—Con.														
204	Grain mill products -----	-	97	40	4.8	72.8	3.6	7.7	52.6	349.7	630.5	981.7	17.9	4.2	183.9
2041	Flour and other grain mill products -----	-	12	6	0.4	5.7	0.3	0.6	4.0	17.9	93.5	111.7	1.4	0.4	6.5
2043	Cereal breakfast foods -----	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2045	Blended and prepared flour--	-	9	4	0.6	10.2	0.5	1.0	7.7	54.2	58.5	112.3	(D)	EE	(D)
2046	Wet corn milling -----	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2047	Dog, cat, and other pet food--	-	14	8	1.3	20.7	1.1	2.3	15.9	104.3	137.4	241.8	(D)	1.2	54.5
2048	Prepared feeds, n.e.c. -----	-	55	17	1.2	15.2	0.7	1.6	8.9	39.4	186.4	225.5	2.0	1.1	32.1
205	Bakery products -----	-	151	67	12.5	157.8	7.7	15.6	96.8	443.2	297.2	739.9	23.2	14.8	293.0
2051	Bread, cake, and related products -----	-	139	59	10.3	127.6	5.7	11.4	70.8	334.1	219.9	554.0	20.2	12.3	226.5
2052	Cookies and crackers -----	-	12	8	2.2	30.3	2.0	4.2	26.0	109.1	77.2	185.9	3.0	2.4	66.6
206	Sugar and confectionery products -----	-	69	18	2.2	23.5	1.6	2.9	15.0	62.3	97.8	165.1	5.6	2.7	48.9
2063	Beet sugar -----	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2065	Confectionery products -----	-	62	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	24.2
207	Fats and oils -----	-	25	17	2.2	35.5	1.3	2.9	19.6	151.5	518.0	667.1	7.4	2.5	91.4
2075	Soybean oil mills -----	-	5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2077	Animal and marine fats and oils -----	-	17	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2079	Shortening and cooking oils --	-	3	3	1.2	20.5	0.7	1.7	12.4	82.7	221.6	306.0	(D)	1.2	53.7
208	Beverages -----	-	121	70	9.5	139.9	4.6	9.3	62.8	499.9	590.0	1 084.6	25.9	10.5	318.8
2082	Malt beverages -----	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2085	Distilled liquor, except brandy -----	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2086	Bottled and canned soft drinks -----	E1	84	57	6.4	85.8	2.4	4.9	26.0	245.1	297.7	538.3	15.4	7.2	138.3
2087	Flavoring extracts and sirups, n.e.c.-----	-	21	5	0.5	7.6	0.3	0.6	3.5	97.2	62.3	158.6	2.1	0.4	42.7
209	Miscellaneous foods and kindred products -----	-	156	48	4.8	52.9	3.1	6.0	29.1	238.4	393.1	629.9	9.8	4.9	127.9
2092	Fresh or frozen packaged fish -----	-	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2095	Roasted coffee -----	-	10	6	0.9	10.8	0.4	0.8	4.4	95.7	197.3	291.6	0.2	1.1	38.7
2097	Manufactured ice -----	-	18	3	0.2	1.7	0.1	0.2	0.8	2.2	1.0	3.2	0.4	AA	(D)
2098	Macaroni and spaghetti -----	-	7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2099	Food preparations, n.e.c. -----	-	113	32	3.1	33.7	2.1	4.0	19.4	131.9	134.9	266.6	7.9	3.2	79.2
21	Tobacco products -----	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2121	Cigars -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
22	Textile mill products --	-	84	39	7.2	83.5	5.2	10.5	50.6	161.9	210.7	391.5	(D)	9.0	148.7
2231	Weaving and finishing mills, wool-----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2241	Narrow fabric mills -----	-	6	3	0.4	3.9	0.4	0.7	2.9	8.5	6.5	14.9	(D)	0.3	4.9
225	Knitting mills -----	-	16	9	1.9	20.4	1.4	2.8	9.9	50.1	26.7	77.2	(D)	2.7	27.2
2253	Knit outerwear mills -----	-	11	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2254	Knit underwear mills -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
226	Textile finishing, except wool --	-	9	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	8.8
2269	Finishing plants, n.e.c. -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
227	Floor covering mills -----	E2	6	3	0.2	1.4	0.1	0.2	0.9	3.0	4.8	7.8	0.1	(NA)	(NA)
229	Miscellaneous textile goods --	-	36	19	3.6	46.2	2.4	5.1	29.8	100.5	163.2	262.1	(D)	4.4	98.6
2293	Paddings and upholstery filling-----	-	3	3	0.8	7.3	0.5	1.0	4.7	18.1	14.4	32.0	(D)	0.8	10.0
2295	Coated fabrics, not rubberized -----	-	18	12	2.5	35.5	1.6	3.4	22.5	74.3	140.4	213.6	(D)	3.5	83.9
2298	Cordage and twine -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
23	Apparel and other textile products -----	-	369	145	19.8	175.9	16.0	28.1	122.3	430.2	398.9	824.1	9.1	20.6	294.7
2311	Men's and boys' suits and coats -----	-	15	11	4.2	31.4	3.6	5.7	26.1	123.3	62.3	180.1	(D)	5.0	83.2
232	Men's and boys' furnishings --	E3	29	18	1.9	13.2	1.7	3.0	9.0	24.9	19.3	43.9	(D)	2.8	40.5
2321	Men's and boys' shirts and nightwear -----	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2323	Men's and boys' neckwear -----	E0	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2327	Men's and boys' separate trousers -----	-	8	6	0.8	4.3	0.8	1.1	3.3	8.5	5.4	13.7	0.1	1.2	14.3
2328	Men's and boys' work clothing -----	E5	8	4	0.2	1.6	0.2	0.4	1.1	2.6	2.7	5.3	0.1	CC	(D)
2329	Men's and boys' clothing, n.e.c. -----	-	9	4	0.4	2.8	0.4	0.7	2.2	5.6	4.2	9.7	(D)	BB	(D)
233	Women's and misses' outerwear -----	-	55	31	3.9	31.9	3.1	5.3	21.3	53.4	66.4	122.2	(D)	4.3	52.3
2331	Women's and misses' blouses and waists -----	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2335	Women's and misses' dresses -----	E2	26	9	0.6	3.7	0.5	0.8	2.5	7.7	9.1	16.6	0.1	0.7	11.8
2337	Women's and misses' suits and coats -----	E4	10	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	4.2
2339	Women's and misses' outerwear, n.e.c. -----	-	14	10	1.8	18.2	1.3	2.6	12.2	24.6	42.0	69.4	(D)	EE	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
23	Apparel and other textile products—Con.														
236	Children's outerwear -----	-	5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2361	Children's dresses and blouses -----	-	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
238	Miscellaneous apparel and accessories -----	-	29	17	2.1	19.4	1.6	2.8	11.3	39.9	28.9	68.9	(D)	2.1	24.5
2381	Fabric dress and work gloves -----	-	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	12.4
2385	Waterproof outer garments -----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2387	Apparel belts -----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2389	Apparel and accessories, n.e.c. -----	-	12	6	0.5	2.7	0.3	0.5	1.4	5.3	2.9	8.2	(D)	0.4	3.8
239	Miscellaneous fabricated textile products -----	-	232	61	7.2	76.1	5.7	10.7	52.7	176.4	212.3	387.0	(D)	8.0	87.8
2391	Curtains and draperies -----	-	47	11	0.6	4.5	0.5	0.8	2.8	8.2	8.6	17.1	0.2	0.7	5.8
2392	House furnishings, n.e.c. -----	-	28	8	1.6	11.3	1.3	2.4	7.1	24.9	46.4	71.5	(D)	1.4	17.5
2393	Textile bags -----	E2	9	3	0.2	1.4	0.1	0.2	0.8	2.6	3.8	6.3	0.2	0.2	1.6
2394	Canvas and related products -----	E1	65	11	0.8	6.3	0.6	1.0	3.8	11.2	12.4	23.6	0.4	0.8	9.0
2395	Pleating and stitching -----	-	16	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2396	Automotive and apparel trimmings -----	-	29	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2399	Fabricated textile products, n.e.c. -----	-	35	15	1.3	8.7	0.9	1.7	5.8	17.2	17.4	33.1	0.3	1.2	15.6
24	Lumber and wood products -----	E1	854	175	13.7	136.2	11.3	21.2	95.7	292.0	408.1	697.2	16.1	13.8	197.5
2411	Logging camps and logging contractors -----	E5	135	3	0.4	3.8	0.4	0.6	3.4	10.3	9.6	19.9	1.4	0.3	2.8
242	Sawmills and planing mills -----	E2	240	30	2.3	19.9	2.0	3.9	15.3	41.4	49.1	90.5	5.3	2.2	26.0
2421	Sawmills and planing mills, general -----	E2	217	25	1.9	16.0	1.7	3.2	12.5	35.2	42.1	77.2	4.7	1.4	18.5
2426	Hardwood dimension and flooring -----	E2	18	5	0.4	3.3	0.3	0.7	2.4	5.5	5.2	10.6	0.4	0.7	5.5
243	Millwork, plywood, and structural members -----	-	179	61	4.7	48.4	3.9	7.5	35.4	108.1	139.1	244.4	5.9	4.0	57.0
2431	Millwork -----	-	77	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	33.1
2434	Wood kitchen cabinets -----	E1	66	15	1.1	11.1	0.9	1.8	8.5	18.0	14.2	31.8	0.6	0.9	9.6
2435	Hardwood veneer and plywood -----	-	3	2	0.2	2.2	0.2	0.3	1.9	7.7	8.5	16.0	(D)	AA	(D)
2439	Structural wood members, n.e.c. -----	E1	32	14	0.7	6.1	0.5	1.0	4.1	17.0	23.5	40.0	1.1	CC	(D)
244	Wood containers -----	E1	126	25	1.5	13.4	1.3	2.5	10.2	23.5	31.0	54.2	1.5	1.6	16.5
2448	Wood pallets and skids -----	E2	102	21	1.3	11.4	1.1	2.1	8.7	20.2	27.5	47.4	1.4	0.9	10.1
245	Wood buildings and mobile homes -----	-	41	25	2.0	23.2	1.6	2.8	15.0	49.7	112.5	161.7	1.6	3.1	53.8
2451	Mobile homes -----	-	9	8	0.8	8.8	0.7	1.2	6.2	17.5	40.4	57.6	0.7	1.6	23.4
2452	Prefabricated wood buildings -----	-	32	17	1.1	14.7	0.9	1.6	8.8	32.2	72.1	104.1	0.9	1.6	30.4
249	Miscellaneous wood products -----	-	133	31	2.8	27.4	2.1	3.8	16.4	58.9	66.8	126.5	2.5	2.6	41.5
2491	Wood preserving -----	-	6	3	0.2	2.7	0.2	0.4	1.9	5.6	13.1	18.8	0.7	BB	(D)
2499	Wood products, n.e.c. -----	-	127	28	2.6	24.7	1.9	3.4	14.6	53.3	53.7	107.6	1.7	2.2	34.0
25	Furniture and fixtures -----	-	307	111	17.5	198.5	14.1	26.3	142.8	366.7	356.5	720.3	13.6	17.3	272.1
251	Household furniture -----	-	134	54	8.4	79.3	7.0	12.8	58.3	152.9	175.9	327.2	(D)	8.1	115.2
2511	Wood household furniture -----	-	55	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	29.8
2512	Upholstered household furniture -----	-	22	7	1.1	12.4	0.9	1.7	8.9	20.9	18.3	39.0	0.6	1.7	22.8
2514	Metal household furniture -----	-	17	10	2.0	18.1	1.6	2.7	12.8	33.4	46.1	78.8	0.9	1.2	17.6
2515	Mattresses and bedsprings -----	-	32	19	1.8	19.5	1.4	2.8	13.4	42.1	62.2	104.6	0.7	2.1	33.2
2517	Wood TV and radio cabinets -----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2519	Household furniture, n.e.c. -----	-	5	4	0.7	6.3	0.6	1.2	4.8	13.3	16.6	29.9	(D)	CC	(D)
252	Office furniture -----	-	20	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	58.0
2521	Wood office furniture -----	E1	8	2	0.2	2.4	0.2	0.3	1.7	3.9	2.9	6.6	0.2	CC	(D)
2522	Metal office furniture -----	-	12	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2531	Public building and related furniture -----	-	22	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	10.5
254	Partitions and fixtures -----	-	105	33	4.3	58.6	3.4	6.3	41.9	110.4	95.0	202.7	(D)	4.2	71.1
2541	Wood partitions and fixtures -----	E1	71	15	1.2	15.8	0.9	1.7	10.0	26.7	19.5	45.4	(D)	1.3	20.2
2542	Metal partitions and fixtures -----	-	34	18	3.1	42.9	2.5	4.6	31.8	83.7	75.6	157.3	2.8	2.9	50.8
259	Miscellaneous furniture and fixtures -----	-	26	7	0.6	5.6	0.4	0.8	3.4	10.1	8.7	18.9	(D)	1.1	17.4
2599	Furniture and fixtures, n.e.c. -----	-	14	5	0.5	4.8	0.4	0.7	3.0	8.8	7.5	16.4	(D)	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expen- diture (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
26	Paper and allied products -----	-	408	258	36.7	510.2	27.4	56.7	350.7	1 040.4	1 456.3	2 496.7	108.6	37.0	672.1
2621	Paper mills, except building paper -----	-	19	16	7.2	121.3	5.5	12.4	90.8	241.6	363.6	611.0	38.3	FF	(D)
2631	Paperboard mills -----	-	20	20	2.7	45.0	2.3	5.2	35.7	102.8	132.3	236.4	18.8	2.8	61.9
264	Miscellaneous converted paper products -----	-	170	81	11.5	147.8	7.7	15.6	85.5	315.3	388.6	682.8	24.4	10.1	187.8
2641	Paper coating and glazing -----	-	40	21	5.4	76.7	3.0	6.2	38.8	171.7	188.2	360.2	15.8	4.5	99.1
2642	Envelopes -----	-	14	9	1.5	17.4	1.1	2.3	11.6	31.8	32.8	63.9	1.1	1.4	19.2
2643	Bags, except textile bags -----	-	28	19	2.0	24.3	1.5	3.1	15.0	45.9	70.5	116.4	2.8	1.5	25.8
2645	Die-cut paper and board -----	E3	33	14	1.3	14.2	1.1	2.1	10.4	26.7	35.8	61.6	2.1	1.2	17.4
2646	Pressed and molded pulp goods -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2648	Stationery products -----	-	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2649	Converted paper products, n.e.c. -----	-	46	13	1.0	10.9	0.7	1.3	6.5	28.9	33.0	61.6	2.4	CC	(D)
265	Paperboard containers and boxes -----	-	195	138	15.1	193.8	11.7	23.3	136.8	374.5	585.1	953.9	28.7	16.1	255.9
2651	Folding paperboard boxes -----	-	47	34	5.0	62.9	4.1	8.2	48.1	122.2	159.5	277.1	8.0	4.7	80.0
2652	Setup paperboard boxes -----	-	12	9	0.4	3.8	0.4	0.7	2.7	7.0	4.0	11.1	0.3	0.5	4.7
2653	Corrugated and solid fiber boxes -----	-	101	70	7.4	100.8	5.5	10.9	66.2	190.5	324.3	515.1	14.1	8.6	134.7
2654	Sanitary food containers -----	-	10	7	0.7	7.9	0.6	1.0	5.7	19.8	45.2	64.3	2.8	0.9	15.4
2655	Fiber cans, drums, and similar products -----	-	25	18	1.5	18.2	1.3	2.5	14.1	34.9	52.2	86.4	3.7	1.4	21.1
27	Printing and publishing -----	-	2 081	483	60.0	788.7	37.0	70.2	464.2	1 687.2	950.4	2 627.0	86.4	63.2	1 200.9
2711	Newspapers -----	-	336	121	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	19.2	346.7
2721	Periodicals -----	-	80	21	2.9	33.5	0.6	1.2	7.8	128.2	55.2	181.9	2.2	3.0	84.8
273	Books -----	-	74	20	4.1	55.4	2.1	4.5	26.5	192.3	81.5	271.2	4.5	4.8	111.5
2731	Book publishing -----	-	36	10	2.4	31.9	0.7	1.6	8.2	146.4	53.7	197.8	2.8	2.9	84.6
2732	Book printing -----	-	38	10	1.7	23.5	1.4	2.9	18.3	45.9	27.8	73.4	1.7	1.6	26.9
2741	Miscellaneous publishing -----	-	56	14	1.4	15.7	0.7	1.3	6.0	31.7	23.2	54.5	1.0	EE	(D)
275	Commercial printing -----	-	1 276	219	23.4	311.3	18.2	34.0	223.6	533.4	435.2	866.2	42.4	25.0	402.6
2751	Commercial printing, letterpress -----	E1	669	72	9.1	119.0	7.3	13.9	91.1	194.0	180.7	375.3	20.5	9.7	149.2
2752	Commercial printing, lithographic -----	-	563	136	13.1	173.7	8.8	18.1	117.6	303.8	222.6	523.8	19.9	13.5	226.3
2753	Engraving and plate printing -----	E1	19	6	0.3	3.2	0.2	0.4	2.2	6.6	2.0	8.6	0.2	0.4	5.2
2754	Commercial printing, gravure -----	-	25	5	1.0	15.4	0.9	1.6	12.8	29.0	29.9	58.6	1.7	1.4	21.9
2761	Manifold business forms -----	-	36	21	3.6	46.8	2.8	5.6	35.6	125.4	109.6	233.9	6.9	3.2	78.7
2771	Greeting card publishing -----	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
278	Blankbooks and bookbinding --	-	52	24	1.6	17.0	1.4	2.5	12.6	31.5	10.2	41.5	1.4	1.5	18.6
2782	Blankbooks and looseleaf binders -----	-	17	9	0.8	9.4	0.6	1.2	6.7	19.0	6.9	25.9	1.1	0.6	9.8
2789	Bookbinding and related work -----	-	35	15	0.9	7.6	0.7	1.3	5.8	12.5	3.3	15.6	0.3	0.9	8.7
279	Printing trade services -----	-	167	40	2.4	36.8	1.7	3.0	25.7	57.9	17.3	74.5	2.8	2.5	42.0
2791	Typesetting -----	-	91	14	1.0	13.4	0.8	1.3	9.7	22.4	3.1	25.3	1.2	1.2	17.9
2793	Photoengraving -----	-	14	5	0.2	2.7	0.1	0.2	1.8	4.6	1.4	6.0	(D)	0.4	7.0
2795	Lithographic platemaking services -----	-	56	20	1.1	19.9	0.8	1.4	13.8	28.9	11.8	41.3	1.5	0.8	15.5
28	Chemicals and allied products -----	-	705	284	45.5	712.4	27.4	55.1	386.0	3 209.0	3 576.1	6 758.3	232.0	48.0	1 977.7
281	Industrial inorganic chemicals --	-	96	31	8.9	144.0	5.4	10.8	81.1	452.3	496.7	951.2	38.1	8.9	253.0
2812	Alkalies and chlorine -----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2813	Industrial gases -----	-	46	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	40.8
2816	Inorganic pigments -----	-	11	6	1.4	22.1	0.8	1.7	11.9	40.4	83.1	126.4	4.5	CC	(D)
2819	Industrial inorganic chemicals, n.e.c. -----	-	37	17	5.8	92.3	3.6	7.0	52.2	294.1	335.9	630.3	9.4	4.5	124.4
282	Plastics materials and synthetics -----	-	33	25	5.3	88.1	3.7	7.6	57.1	306.4	599.4	904.9	53.6	7.0	240.0
2821	Plastics materials and resins -----	-	26	22	4.1	68.1	2.8	5.8	44.9	273.5	515.0	785.8	49.2	FF	(D)
2822	Synthetic rubber -----	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2824	Organic fibers, noncellulosic -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
283	Drugs -----	-	41	12	2.9	45.8	0.9	1.7	9.6	107.6	64.2	172.2	3.9	3.0	93.1
2831	Biological products -----	E2	13	3	0.2	2.1	0.1	0.2	0.9	5.6	3.2	8.8	0.3	(NA)	(NA)
2834	Pharmaceutical preparations -----	-	23	9	2.7	43.3	0.8	1.5	8.5	100.6	58.6	159.9	3.6	FF	(D)
284	Soaps, cleaners, and toilet goods -----	-	124	37	6.9	110.3	4.8	9.8	69.0	1 132.9	680.0	1 811.1	24.2	7.0	732.0
2841	Soap and other detergents -----	-	38	15	2.8	48.2	1.9	3.8	30.3	250.7	295.9	547.0	12.5	3.0	207.6
2842	Polishes and sanitation goods -----	-	52	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2844	Toilet preparations -----	-	31	9	2.8	42.9	1.9	4.1	27.0	656.0	189.8	844.0	8.0	2.8	398.3
2851	Paints and allied products -----	-	97	55	5.8	86.5	3.0	6.3	39.3	282.4	392.2	669.6	7.6	6.8	175.1

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972		
			E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
28	Chemicals and allied products—Con.															
286	Industrial organic chemicals ---	-	46	28	5.4	91.4	3.5	7.0	55.9	402.3	613.2	991.7	66.9	5.5	169.6	
2865	Cyclic crudes and intermediates -----	-	13	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
2869	Industrial organic chemicals, n.e.c. -----	-	31	17	2.9	52.0	1.8	3.6	30.8	275.9	376.2	634.2	50.4	3.1	99.6	
287	Agricultural chemicals -----	-	66	21	2.6	39.2	1.4	2.8	18.4	186.2	326.6	517.6	13.5	2.3	114.1	
2873	Nitrogenous fertilizers -----	-	5	3	0.8	13.4	0.5	0.9	8.1	21.9	75.8	94.1	(D)	CC	(D)	
2875	Fertilizers, mixing only -----	-	43	14	1.5	22.0	0.8	1.5	8.4	131.5	221.3	361.3	5.0	1.2	74.4	
2879	Agricultural chemicals, n.e.c. -----	-	12	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	16.0	
289	Miscellaneous chemical products -----	-	202	75	7.7	107.1	4.8	9.1	55.6	339.0	403.8	739.9	24.4	7.8	200.8	
2891	Adhesives and sealants -----	-	42	22	2.2	30.8	1.3	2.5	14.1	82.9	110.8	191.7	3.5	1.9	53.3	
2892	Explosives -----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
2893	Printing ink -----	-	31	15	1.0	13.1	0.6	1.1	7.3	32.0	44.8	76.8	1.9	1.1	24.2	
2899	Chemical preparations, n.e.c. -----	-	123	33	3.9	56.3	2.4	4.6	29.4	206.4	221.6	427.1	18.1	4.2	112.8	
29	Petroleum and coal products -----	-	163	62	7.4	124.7	4.8	10.0	75.5	845.5	3 333.3	3 953.7	47.6	6.2	310.9	
2911	Petroleum refining -----	-	10	9	2.6	55.6	1.9	3.8	38.1	456.6	3 015.2	3 448.0	36.1	2.9	215.5	
295	Paving and roofing materials ---	-	118	37	3.8	54.8	2.5	5.2	31.4	142.4	215.0	356.1	10.1	2.6	69.8	
2951	Paving mixtures and blocks ---	-	94	18	1.1	15.9	0.9	1.7	11.8	41.8	112.8	154.2	6.1	1.0	26.1	
2952	Asphalt felts and coatings ---	-	24	19	2.7	38.9	1.6	3.4	19.6	100.6	102.3	201.9	4.0	1.7	43.7	
299	Miscellaneous petroleum and coal products -----	-	35	16	1.0	14.3	0.5	0.9	5.9	46.5	103.1	149.6	1.4	0.8	25.6	
2992	Lubricating oils and greases -	-	34	15	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	22.5	
2999	Petroleum and coal products, n.e.c. -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.1	
30	Rubber and miscellaneous plastics products ----	-	663	478	98.3	1 364.2	73.2	145.0	909.1	2 658.8	2 826.3	5 390.8	220.1	95.8	1 995.8	
3011	Tires and inner tubes -----	-	21	16	21.8	382.8	14.7	29.7	250.8	621.1	819.1	1 372.5	57.1	26.9	758.3	
3021	Rubber and plastics footwear --	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
3041	Rubber and plastics hose and belting -----	-	13	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.6	134.4	
3069	Fabricated rubber products, n.e.c. -----	-	172	105	22.4	310.1	17.4	34.7	219.7	572.6	525.6	1 092.2	31.5	22.6	387.0	
3079	Miscellaneous plastics products -----	-	653	342	45.3	528.4	36.5	71.8	377.3	1 224.7	1 236.9	2 448.7	121.3	37.2	706.2	
31	Leather and leather products -----	-	55	23	4.0	30.4	3.3	6.1	23.2	56.7	47.2	112.0	0.8	FF	(D)	
3111	Leather tanning and finishing --	-	7	5	0.2	2.0	0.2	0.4	1.6	3.0	8.2	11.3	(D)	0.2	2.2	
314	Footwear, except rubber -----	-	12	9	3.2	23.1	2.6	4.8	18.3	42.8	30.9	81.6	(D)	FF	(D)	
3142	House slippers -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
3143	Men's footwear, except athletic -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
3144	Women's footwear, except athletic -----	-	8	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
3161	Luggage -----	E1	10	4	0.3	2.4	0.3	0.5	1.6	5.1	3.5	8.5	(D)	AA	(D)	
317	Handbags and other personal leather goods -----	E6	8	3	0.2	1.9	0.2	0.3	1.1	3.7	2.7	6.4	(D)	0.2	1.9	
3172	Personal leather goods -----	E6	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
32	Stone, clay, and glass products -----	-	1 081	403	59.0	779.6	47.8	94.0	595.6	1 774.8	1 302.7	3 066.8	129.2	61.6	1 254.4	
3211	Flat glass -----	-	4	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
322	Glass and glassware, pressed or blown -----	-	38	22	13.4	176.7	11.0	21.0	137.1	395.5	211.3	605.4	35.8	14.0	268.4	
3221	Glass containers -----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
3229	Pressed and blown glass, n.e.c. -----	-	36	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
3231	Products of purchased glass ---	-	59	29	3.3	42.9	2.8	5.5	33.1	108.9	94.6	199.8	4.6	4.2	99.2	
3241	Cement; hydraulic -----	-	8	5	0.9	16.2	0.7	1.5	12.1	35.0	40.0	76.1	3.7	1.4	37.7	
325	Structural clay products -----	-	114	81	6.7	76.7	5.5	11.4	57.2	154.3	98.3	255.0	5.9	7.6	112.3	
3251	Brick and structural clay tile -	-	31	29	1.9	19.6	1.6	3.2	15.3	39.7	26.6	68.5	1.7	2.4	34.1	
3253	Ceramic wall and floor tile ---	-	12	9	1.3	13.6	1.1	2.2	10.0	30.4	10.5	40.7	0.6	EE	(D)	
3255	Clay refractories -----	-	47	27	2.2	26.9	1.7	4.0	19.5	55.5	42.1	98.3	2.2	EE	(D)	
3259	Structural clay products, n.e.c. -----	-	24	16	1.3	16.5	1.1	2.0	12.4	28.8	18.8	47.5	1.3	2.1	27.0	

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972		
			E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
				Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
32	Stone, clay, and glass products—Con.															
326	Pottery and related products ---	-	72	37	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	(D)
3261	Vitreous plumbing fixtures ---	-	7	5	1.6	21.2	1.3	2.6	15.8	54.8	25.2	79.5	1.6	EE	(D)	(D)
3262	Vitreous china food utensils ---	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	(D)
3263	Fine earthenware food utensils ---	-	6	6	1.9	14.5	1.7	3.0	12.3	24.8	8.7	33.2	(D)	EE	(D)	(D)
3264	Porcelain electrical supplies ---	-	8	6	1.3	17.3	1.0	1.8	12.9	33.8	16.7	50.6	1.5	EE	(D)	(D)
3269	Pottery products, n.e.c. -----	E1	47	18	1.8	14.0	1.6	3.0	10.7	25.9	11.7	36.8	1.2	2.0	21.7	(D)
327	Concrete, gypsum, and plaster products															
3271	Concrete block and brick ---	E1	531	138	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.0	211.1	(D)
3272	Concrete products, n.e.c. ---	-	88	17	1.0	12.5	0.6	1.1	6.0	27.5	31.6	59.5	2.1	1.2	27.6	(D)
3273	Ready-mixed concrete ---	E1	194	43	3.3	41.3	2.5	5.1	28.2	86.6	61.1	147.5	9.2	3.6	67.4	(D)
3274	Lime ---	-	252	64	4.0	55.4	2.8	5.6	36.3	125.0	172.7	297.5	14.8	3.9	84.2	(D)
3275	Gypsum products ---	-	10	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	19.2	(D)
		-	7	5	0.5	6.6	0.4	0.8	5.3	15.1	23.0	38.1	0.9	0.4	12.8	(D)
3281	Cut stone and stone products ---	E1	54	6	0.6	6.2	0.5	1.1	5.0	14.3	7.7	22.0	0.5	CC	(D)	(D)
329	Miscellaneous nonmetallic mineral products															
3291	Abrasive products ---	-	191	83	12.5	169.9	9.8	18.8	120.0	467.1	346.1	811.6	36.4	11.8	271.8	(D)
3292	Asbestos products ---	-	43	25	3.3	44.2	2.4	4.6	27.2	142.8	77.3	217.6	11.7	2.8	71.1	(D)
3293	Gaskets, packing, and sealing devices ---	-	7	2	0.3	4.0	0.2	0.5	2.5	6.7	10.0	18.4	(Z)	1.0	20.0	(D)
3295	Minerals, ground or treated ---	-	37	17	2.0	22.3	1.6	3.0	15.3	48.5	31.3	79.3	2.4	1.7	28.2	(D)
3296	Mineral wool ---	-	35	12	0.8	12.1	0.6	1.2	8.5	30.8	23.4	54.0	2.9	0.7	19.2	(D)
3297	Nonclay refractories ---	-	13	9	3.9	57.8	3.3	6.5	47.5	152.1	121.6	274.7	(D)	4.1	86.3	(D)
3299	Nonmetallic mineral products, n.e.c. -----	-	20	11	1.4	20.2	0.9	1.7	11.9	61.0	70.5	130.5	6.1	1.1	38.3	(D)
		-	36	7	0.9	9.3	0.7	1.3	7.1	25.3	12.0	37.3	(D)	0.5	8.7	(D)
33	Primary metal industries															
		-	659	403	142.6	2 548.6	116.4	228.4	1 998.9	5 505.7	7 799.2	13 281.0	389.6	148.2	3 235.3	(D)
331	Blast furnace and basic steel products ---	-	118	93	84.3	1 613.2	68.5	131.8	1 273.8	3 664.0	5 614.3	9 289.9	241.1	88.5	2 235.0	(D)
3312	Blast furnaces and steel mills ---	-	42	29	67.8	1 340.4	55.8	106.4	1 073.3	3 038.8	4 375.6	7 443.9	188.2	73.3	1 882.9	(D)
3313	Electrometallurgical products ---	-	9	8	3.4	55.2	2.7	5.3	41.0	106.5	250.9	355.8	22.2	FF	(D)	(D)
3315	Steel wire and related products ---	-	25	20	3.6	52.8	2.7	5.6	37.9	109.4	163.1	266.8	9.8	2.7	60.2	(D)
3316	Cold finishing of steel shapes ---	-	20	16	4.2	75.9	3.0	5.9	52.9	224.4	522.4	739.4	(D)	3.9	105.7	(D)
3317	Steel pipe and tubes ---	-	22	20	5.4	88.9	4.3	8.7	68.7	184.9	302.3	483.9	(D)	FF	(D)	(D)
332	Iron and steel foundries ---	-	144	109	31.5	534.6	26.5	54.0	433.3	1 046.7	689.3	1 723.6	92.3	30.4	542.0	(D)
3321	Gray iron foundries ---	-	95	78	21.3	388.9	18.1	37.8	317.9	803.0	555.7	1 346.5	75.8	19.6	378.8	(D)
3322	Malleable iron foundries ---	-	6	6	2.6	36.3	2.3	4.0	31.0	44.8	33.4	78.0	(D)	FF	(D)	(D)
3324	Steel investment foundries ---	E1	11	6	0.7	7.8	0.5	1.1	5.8	12.4	6.0	18.1	(D)	BB	(D)	(D)
3325	Steel foundries, n.e.c. -----	-	32	21	6.9	101.6	5.6	11.1	78.8	186.5	94.1	280.9	12.4	6.9	101.3	(D)
333	Primary nonferrous metals ---	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	5.6	(D)
3334	Primary aluminum ---	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	(D)
3339	Primary nonferrous metals, n.e.c. -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	(D)
3341	Secondary nonferrous metals ---	-	33	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	32.6	(D)
335	Nonferrous rolling and drawing ---	-	50	38	8.5	139.3	6.4	12.9	97.5	272.8	691.6	951.9	21.0	9.9	154.4	(D)
3351	Copper rolling and drawing ---	-	9	8	1.9	31.8	1.5	3.0	23.0	40.3	169.1	212.8	2.5	2.1	25.6	(D)
3353	Aluminum sheet, plate, and foil ---	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	(D)
3354	Aluminum extruded products ---	-	16	15	1.5	19.2	1.2	2.4	13.6	42.5	78.8	119.8	3.3	1.7	26.6	(D)
3355	Aluminum rolling and drawing, n.e.c. -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	(D)
3356	Nonferrous rolling and drawing, n.e.c. -----	-	10	6	2.3	40.4	1.5	3.2	24.8	78.3	158.8	232.7	4.6	2.6	42.1	(D)
3357	Nonferrous wire drawing and insulating ---	-	12	6	0.6	7.3	0.5	1.0	5.3	15.8	32.2	47.2	0.5	CC	(D)	(D)
336	Nonferrous foundries ---	-	191	97	12.0	160.6	9.9	19.1	120.0	318.8	277.3	593.5	14.8	12.9	219.6	(D)
3361	Aluminum foundries ---	-	121	63	8.7	119.4	7.2	14.0	91.1	228.6	200.1	425.5	11.8	8.9	146.6	(D)
3362	Brass, bronze, and copper foundries ---	E1	39	17	0.9	10.4	0.7	1.5	8.0	23.7	24.5	47.2	1.0	1.2	18.8	(D)
3369	Nonferrous foundries, n.e.c. ---	-	31	17	2.4	30.8	1.9	3.7	21.0	68.5	52.8	120.8	2.0	2.8	54.2	(D)
339	Miscellaneous primary metal products ---	-	120	45	2.7	34.5	2.2	4.3	22.6	73.8	133.7	207.0	8.9	2.7	46.1	(D)
3398	Metal heat treating ---	-	93	37	2.2	27.6	1.8	3.5	18.3	57.5	115.6	173.4	8.1	2.0	32.2	(D)
3399	Primary metal products, n.e.c. -----	E2	27	8	0.5	6.9	0.4	0.8	4.2	16.3	18.0	33.6	0.8	0.8	13.9	(D)
34	Fabricated metal products															
		-	2 376	1 113	164.5	2 483.3	127.2	255.8	1 779.6	5 398.6	5 701.4	11 035.8	318.8	156.5	3 142.5	(D)
341	Metal cans and shipping containers ---	-	47	36	5.5	82.9	4.5	9.3	63.1	266.9	368.3	633.7	25.6	4.8	128.5	(D)
3411	Metal cans ---	-	24	21	4.4	66.2	3.6	7.5	51.8	231.5	314.3	542.7	23.8	3.3	101.8	(D)
3412	Metal barrels, drums, and pails ---	-	23	15	1.1	16.7	0.9	1.8	11.3	35.5	54.0	91.0	1.8	1.5	26.8	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
34	Fabricated metal products—Con.														
342	Cutlery, hand tools, and hardware -----	-	156	83	16.1	265.9	13.2	26.8	206.8	625.3	407.9	1 027.3	43.9	16.1	417.5
3421	Cutlery -----	-	9	5	0.6	8.0	0.5	1.0	5.7	17.4	11.3	28.1	(D)	0.6	9.3
3423	Hand and edge tools, n.e.c. -----	-	68	36	5.7	73.5	4.5	8.9	53.3	209.4	121.5	330.3	9.0	5.2	112.4
3425	Hand saws and saw blades -----	-	11	5	0.4	4.7	0.4	0.7	3.4	10.3	6.7	17.2	0.6	0.4	4.6
3429	Hardware, n.e.c. -----	-	68	37	9.3	179.8	7.9	16.3	144.5	388.2	268.5	651.7	(D)	9.9	291.2
343	Plumbing and heating, except electric -----	-	54	24	3.7	54.3	2.5	5.0	29.5	113.7	130.2	239.1	3.1	5.4	104.8
3431	Metal sanitary ware -----	-	8	3	1.0	11.8	0.8	1.5	9.9	30.2	26.2	56.4	0.6	1.5	25.6
3432	Plumbing fittings and brass goods -----	-	20	11	1.8	27.5	1.1	2.3	12.2	50.8	70.6	116.1	0.7	2.5	44.6
3433	Heating equipment, except electric -----	-	26	10	0.9	15.1	0.6	1.2	7.4	32.7	33.4	66.5	1.8	1.4	34.6
344	Fabricated structural metal products -----	-	596	264	32.0	419.2	23.2	44.4	277.2	969.3	1 226.5	2 201.1	40.8	32.2	576.6
3441	Fabricated structural metal --	-	136	62	4.2	54.8	3.0	5.7	32.9	106.2	122.8	227.5	6.0	5.4	86.8
3442	Metal doors, sash, and trim --	-	74	33	4.4	50.5	3.3	6.2	33.0	111.6	127.0	235.1	5.1	6.5	117.2
3443	Fabricated plate work (boiler shops) -----	-	117	63	10.8	150.5	7.9	15.1	101.7	358.1	357.5	732.3	15.7	8.9	166.7
3444	Sheet metal work -----	-	163	63	8.4	105.3	6.0	11.5	73.8	248.7	433.3	676.5	10.9	6.8	129.2
3446	Architectural metal work -----	-	63	21	1.9	24.7	1.4	2.7	15.5	52.2	62.3	115.3	0.9	2.1	26.4
3448	Prefabricated metal buildings -----	-	16	9	1.0	16.4	0.8	1.6	10.8	43.7	64.5	107.5	0.7	1.1	24.3
3449	Miscellaneous metal work ---	-	27	13	1.2	17.0	0.8	1.6	9.5	48.6	59.1	107.0	1.5	1.5	25.9
345	Screw machine products, bolts, etc. -----	-	258	136	12.5	171.5	9.8	19.8	118.9	359.4	301.2	662.9	19.1	14.0	268.7
3451	Screw machine products ---	-	175	85	5.5	66.0	4.6	9.3	48.0	135.4	103.3	235.5	7.2	4.7	70.7
3452	Bolts, nuts, rivets, and washers -----	-	83	51	7.0	105.5	5.2	10.4	70.9	223.9	197.9	427.4	11.8	9.3	198.1
346	Metal forgings and stampings --	-	402	251	53.8	953.6	44.7	93.0	749.7	1 856.8	2 048.5	3 872.7	136.7	50.0	1 014.6
3462	Iron and steel forgings -----	-	54	44	7.8	135.5	6.4	12.7	104.7	258.3	369.0	628.1	25.4	FF	(D)
3463	Nonferrous forgings -----	-	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3465	Automotive stampings -----	-	109	81	32.0	637.6	27.2	58.9	517.9	1 174.2	1 294.4	2 451.8	92.2	28.9	644.7
3469	Metal stampings, n.e.c. -----	-	233	124	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12.5	196.4
347	Metal services, n.e.c. -----	-	392	108	8.3	94.8	6.7	13.2	66.1	212.8	305.7	517.1	9.6	7.1	105.5
3471	Plating and polishing -----	-	284	75	5.3	55.1	4.4	8.7	38.4	106.8	56.0	162.0	5.4	5.3	83.2
3479	Metal coating and allied services -----	-	108	33	3.0	39.7	2.4	4.5	27.7	106.0	249.7	355.1	4.2	1.8	22.3
348	Ordnance and accessories, n.e.c. -----	-	15	9	3.9	61.4	2.1	4.1	28.4	84.2	31.0	118.8	1.8	2.1	29.5
3483	Ammunition, except for small arms, n.e.c. -----	-	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3489	Ordnance and accessories, n.e.c. -----	-	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
349	Miscellaneous fabricated metal products -----	-	456	202	28.7	379.6	20.6	40.2	240.0	910.3	882.2	1 763.2	38.2	24.8	496.8
3493	Steel springs, except wire ---	-	11	4	0.5	7.1	0.4	0.8	5.3	14.2	14.8	29.3	0.6	BB	(D)
3494	Valves and pipe fittings -----	-	84	54	11.9	162.6	8.3	16.8	101.8	409.1	378.5	765.4	21.0	8.0	166.6
3495	Wire springs -----	-	29	15	1.2	12.8	1.0	2.1	9.1	27.7	27.3	54.9	1.4	1.3	18.3
3496	Miscellaneous fabricated wire products -----	-	71	28	2.0	22.3	1.6	3.1	13.7	41.1	37.9	78.4	1.6	2.4	37.2
3497	Metal foil and leaf -----	-	9	9	1.9	26.7	1.4	2.7	18.4	71.1	102.5	173.4	2.4	EE	(D)
3498	Fabricated pipe and fittings --	-	30	14	1.8	23.0	1.3	2.4	14.7	76.0	78.4	151.4	1.9	EE	(D)
3499	Fabricated metal products, n.e.c. -----	-	222	78	9.3	125.1	6.6	12.3	76.9	271.0	243.0	510.5	9.2	9.3	193.6
35	Machinery, except electrical -----	-	3 683	1 111	197.3	2 945.0	139.2	277.8	1 921.4	5 989.2	4 889.7	10 766.5	333.0	198.6	3 943.1
351	Engines and turbines -----	-	19	12	4.0	65.3	3.1	6.2	48.6	185.6	154.3	317.6	(D)	FF	(D)
3519	Internal combustion engines, n.e.c. -----	-	14	10	3.9	64.4	3.0	6.0	48.0	183.8	151.7	313.4	(D)	FF	(D)
352	Farm and garden machinery ---	-	72	34	4.4	53.9	3.4	6.9	36.6	117.7	147.0	263.2	5.8	5.4	119.1
3523	Farm machinery and equipment -----	-	58	24	3.0	40.9	2.2	4.2	27.3	85.0	85.9	172.9	4.0	2.9	51.7
3524	Lawn and garden equipment -	-	14	10	1.4	13.0	1.1	2.6	9.2	32.7	61.1	90.3	1.8	2.4	67.4
353	Construction and related machinery -----	-	239	134	32.0	495.9	21.3	41.5	305.1	1 039.6	1 022.3	2 063.1	48.8	28.0	517.0
3531	Construction machinery -----	-	75	44	15.2	257.3	10.5	20.0	168.2	518.9	606.6	1 120.6	26.9	14.1	282.8
3532	Mining machinery -----	-	26	15	3.4	39.7	2.1	4.0	24.3	97.4	86.4	182.9	5.6	2.2	42.0
3533	Oil field machinery -----	E1	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3534	Elevators and moving stairways -----	-	13	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	16.8
3535	Conveyors and conveying equipment -----	-	44	27	2.9	37.2	1.8	3.8	20.2	92.5	65.1	154.9	4.0	2.2	39.8
3536	Hoists, cranes, and monorails -----	-	28	19	3.3	47.5	2.1	4.2	25.4	80.8	78.0	167.0	3.0	2.9	45.6
3537	Industrial trucks and tractors -	-	46	20	6.3	99.5	4.4	8.5	60.7	182.3	160.5	345.8	6.1	5.3	88.4

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
35	Machinery, except electrical—Con.														
354	Metalworking machinery -----	-	1 144	349	47.9	746.1	33.5	69.2	477.8	1 423.7	725.5	2 126.7	60.2	46.9	825.7
3541	Machine tools, metal cutting types -----	-	95	40	13.9	214.6	7.5	15.0	112.4	388.9	225.6	623.9	17.5	12.4	186.1
3542	Machine tools, metal forming types -----	-	34	19	4.6	69.2	3.1	6.2	39.4	167.3	94.6	255.1	5.3	5.1	103.0
3544	Special dies, tools, jigs, and fixtures -----	E1	795	188	14.4	231.0	11.9	25.9	175.2	367.8	146.9	505.3	20.3	13.6	241.5
3545	Machine tool accessories -----	-	136	56	7.8	116.9	5.9	11.7	76.6	231.1	100.6	329.4	7.9	6.5	123.8
3546	Power driven hand tools -----	-	16	12	2.7	39.8	1.8	3.8	23.8	90.9	33.5	122.3	5.5	EE	(D)
3547	Rolling mill machinery -----	-	15	11	2.7	44.9	2.2	3.9	33.9	118.3	92.0	201.2	1.7	FF	(D)
3549	Metalworking machinery, n.e.c. -----	-	53	23	1.9	29.5	1.2	2.7	16.6	59.4	32.2	89.6	1.9	1.6	27.0
355	Special industry machinery -----	-	275	139	19.4	281.3	12.4	24.9	163.1	554.3	453.7	986.3	23.5	FF	(D)
3551	Food products machinery -----	-	47	26	4.3	58.7	2.6	5.2	32.4	127.4	108.1	224.7	5.4	FF	(D)
3552	Textile machinery -----	-	9	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3553	Woodworking machinery -----	-	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3554	Paper industries machinery -----	-	13	5	0.7	9.9	0.4	0.7	5.1	25.8	16.8	41.3	0.5	1.3	19.7
3555	Printing trades machinery -----	-	37	12	2.0	29.0	1.4	2.7	17.6	56.0	31.8	90.0	2.1	2.3	44.6
3559	Special industry machinery, n.e.c. -----	-	161	87	11.7	173.2	7.6	15.4	102.6	322.6	279.9	593.7	14.9	11.8	239.5
356	General industrial machinery -----	-	435	188	40.3	599.4	28.2	54.4	369.6	1 197.4	1 008.6	2 178.2	68.4	31.6	574.5
3561	Pumps and pumping equipment -----	-	51	26	9.3	129.9	5.9	11.8	75.5	291.5	195.5	476.0	15.7	6.9	129.2
3562	Ball and roller bearings -----	-	11	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3563	Air and gas compressors -----	-	11	8	4.5	58.8	2.8	5.2	30.5	128.3	123.1	247.3	3.5	FF	(D)
3564	Blowers and fans -----	-	41	24	3.4	42.2	2.5	4.7	28.2	85.9	73.8	159.2	4.6	2.6	45.9
3565	Industrial patterns -----	E1	123	16	1.1	17.6	1.0	2.0	14.2	28.1	9.0	36.8	1.6	CC	(D)
3566	Speed changers, drives, and gears -----	-	26	16	2.7	37.4	1.9	3.6	23.5	83.0	45.5	128.7	8.0	1.6	28.5
3567	Industrial furnaces and ovens -----	-	37	16	2.1	31.4	1.1	2.1	14.1	74.8	50.3	123.6	2.5	2.3	42.0
3568	Power transmission equipment, n.e.c. -----	-	30	23	2.3	30.8	1.7	3.3	20.9	65.4	44.6	109.4	3.4	1.8	35.5
3569	General industrial machinery, n.e.c. -----	-	105	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	39.7
357	Office and computing machines -----	-	39	21	7.3	89.7	4.4	8.0	48.0	212.8	192.0	412.6	(D)	15.6	325.1
3573	Electronic computing equipment -----	-	13	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3574	Calculating and accounting machines -----	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3576	Scales and balances, except laboratory -----	-	11	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3579	Office machines, n.e.c. and typewriters -----	-	12	10	2.2	27.7	1.7	3.1	18.2	49.5	27.9	80.4	1.3	FF	(D)
358	Refrigeration and service machinery -----	-	129	59	24.1	365.7	18.8	36.0	277.9	789.6	938.8	1 711.7	66.4	33.1	844.9
3581	Automatic merchandising machines -----	E1	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3582	Commercial laundry equipment -----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3585	Refrigeration and heating equipment -----	-	53	34	20.9	325.4	16.8	33.8	254.3	693.9	861.1	1 542.4	63.9	30.9	795.5
3589	Service industry machinery, n.e.c. -----	-	66	21	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	37.0
359	Miscellaneous machinery, except electrical -----	E1	1 331	195	17.9	247.8	14.1	28.8	174.7	468.4	247.5	707.0	33.8	16.9	294.5
3592	Carburetors, pistons, rings, and valves -----	-	8	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	13.4
3599	Machinery, except electrical, n.e.c. -----	E1	1 323	189	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	16.1	281.1
36	Electric and electronic equipment -----	-	647	357	110.0	1 496.8	80.6	154.9	980.1	3 654.0	3 060.3	5 824.3	185.0	110.2	2 277.9
361	Electric distributing equipment -----	-	56	36	4.9	54.4	3.4	6.3	33.4	134.6	103.2	234.6	4.3	4.7	82.8
3612	Transformers -----	-	16	11	1.6	17.4	1.2	2.4	11.6	38.9	48.4	85.4	1.4	1.9	28.9
3613	Switchgear and switchboard apparatus -----	-	40	25	3.2	37.0	2.2	4.0	21.8	95.7	54.8	149.2	2.9	2.8	53.9
362	Electrical industrial apparatus -----	-	134	82	24.0	372.2	15.9	32.7	220.4	794.7	586.2	1 354.0	52.3	27.1	501.7
3621	Motors and generators -----	-	38	29	11.3	160.9	8.1	17.0	106.8	319.9	189.0	499.6	16.2	12.9	222.4
3622	Industrial controls -----	-	50	23	3.5	51.1	1.8	3.4	20.2	117.7	68.9	184.5	6.2	3.7	72.2
3623	Welding apparatus, electric -----	-	17	12	5.2	103.3	3.4	6.9	63.4	211.4	249.6	451.5	(D)	4.5	118.8
3624	Carbon and graphite products -----	-	13	10	1.3	18.6	1.0	2.0	12.3	47.9	27.0	72.0	2.9	EE	(D)
3629	Electrical industrial apparatus, n.e.c. -----	-	16	8	2.7	38.1	1.7	3.4	17.6	97.8	51.6	146.4	(D)	FF	(D)
363	Household appliances -----	-	42	28	28.3	382.1	21.8	41.1	269.4	978.7	1 085.4	2 047.4	38.7	23.3	618.3
3631	Household cooking equipment -----	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3632	Household refrigerators and freezers -----	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3633	Household laundry equipment -----	-	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3634	Electric housewares and fans -----	-	17	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	61.6

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
36	Electric and electronic equipment —Con.														
363	Household appliances—Con.														
3635	Household vacuum cleaners -	-	7	6	4.9	59.0	3.8	6.3	41.4	172.6	102.6	279.9	(D)	FF	(D)
3639	Household appliances, n.e.c. -----	-	6	3	0.3	3.1	0.2	0.3	1.8	9.6	14.0	23.0	0.3	BB	(D)
364	Electric lighting and wiring equipment -----	-	111	76	18.1	234.2	14.6	27.5	173.4	629.3	486.0	1 103.6	30.3	19.9	423.9
3641	Electric lamps -----	-	12	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3643	Current-carrying wiring devices -----	-	25	18	2.8	29.7	2.0	3.9	20.0	71.1	43.7	110.1	4.7	2.8	45.3
3644	Noncurrent-carrying wiring devices -----	-	17	14	2.2	25.9	1.5	2.7	15.8	49.8	41.9	93.8	2.3	2.2	27.5
3645	Residential lighting fixtures -	-	22	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3646	Commercial lighting fixtures -	-	15	9	1.2	13.3	0.8	1.5	7.7	36.8	39.8	76.6	(D)	1.2	39.0
3647	Vehicular lighting equipment -	-	6	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3648	Lighting equipment, n.e.c. ---	-	14	9	1.1	14.5	0.8	1.6	9.4	25.7	23.4	50.5	0.8	1.4	26.9
365	Radio and TV receiving equipment -----	E1	25	5	0.7	4.8	0.5	0.7	3.2	9.7	9.6	22.5	0.7	1.5	22.5
3651	Radio and TV receiving sets -	E1	12	2	0.5	3.4	0.4	0.5	2.2	6.7	7.0	16.9	(D)	EE	(D)
366	Communication equipment ----	-	77	41	11.5	159.7	7.7	14.5	98.4	374.9	285.2	635.1	9.4	12.9	237.0
3661	Telephone and telegraph apparatus -----	-	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3662	Radio and TV communication equipment --	-	73	38	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
367	Electronic components and accessories -----	-	129	50	7.3	84.2	5.9	11.5	58.9	220.2	136.7	356.1	14.6	8.0	158.8
3671	Electron tubes, all types ----	-	4	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3674	Semiconductors and related devices -----	-	13	5	1.9	23.6	1.5	2.8	14.9	90.4	21.8	112.9	(D)	EE	(D)
3676	Electronic resistors -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3677	Electronic coils and transformers -----	E1	8	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	14.7
3678	Electronic connectors -----	-	5	5	0.3	3.1	0.2	0.4	1.5	7.6	3.4	10.6	(D)	BB	(D)
3679	Electronic components, n.e.c. -----	-	98	32	2.7	28.8	2.1	4.1	18.5	71.1	45.6	115.2	3.0	2.3	35.5
369	Miscellaneous electrical equipment and supplies ----	-	73	39	15.3	205.3	10.8	20.6	122.9	511.9	368.1	871.0	34.8	12.7	232.9
3691	Storage batteries -----	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.7
3692	Primary batteries, dry and wet -----	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3693	X-ray, electromedical, and electrotherapeutic apparatus -	-	7	6	3.7	54.9	1.7	3.4	20.0	142.0	80.0	221.2	10.2	EE	(D)
3694	Engine electrical equipment -	-	18	12	8.0	111.1	6.1	11.6	73.1	273.6	179.9	448.4	17.2	7.4	130.8
3699	Electrical equipment and supplies, n.e.c. -----	-	41	15	1.9	19.5	1.7	3.1	15.1	44.5	40.5	84.9	2.5	2.0	29.7
37	Transportation equipment -----	-	468	224	158.9	3 061.2	122.3	257.4	2 237.7	6 376.5	10 259.6	16 568.9	494.1	161.4	3 812.9
371	Motor vehicles and equipment -	-	274	146	121.4	2 412.8	100.2	214.3	1 923.0	5 186.1	9 347.7	14 457.2	(D)	117.8	2 898.7
3711	Motor vehicles and car bodies -----	-	22	9	33.1	659.5	28.1	59.6	540.6	1 519.5	5 180.5	6 690.4	74.4	33.0	940.6
3713	Truck and bus bodies -----	-	51	25	5.9	100.4	4.8	10.0	79.4	342.1	266.6	808.6	(D)	(NA)	(NA)
3714	Motor vehicle parts and accessories -----	-	188	107	81.8	1 646.0	66.9	144.0	1 298.7	3 309.7	3 881.9	7 124.3	355.6	80.0	1 882.7
3715	Truck trailers -----	-	11	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	10.7
3716	Motor homes produced on purchased chassis -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
372	Aircraft and parts -----	-	65	43	27.4	508.7	14.2	28.8	213.3	975.3	587.4	1 563.1	(D)	33.2	727.3
3721	Aircraft -----	-	3	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3724	Aircraft engines and engine parts -----	-	20	16	16.3	324.8	7.8	15.4	113.9	623.0	382.3	999.8	25.3	FF	(D)
3728	Aircraft equipment, n.e.c. ---	-	42	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.3	185.1
373	Ship and boat building and repairing -----	-	48	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	27.6
3731	Ship building and repairing --	-	14	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3732	Boat building and repairing --	E1	32	4	0.3	3.0	0.2	0.5	2.2	5.2	4.7	9.9	0.2	BB	(D)
3743	Railroad equipment -----	-	15	11	3.8	60.8	3.0	5.6	46.2	92.0	118.0	213.1	(D)	2.8	49.2
3751	Motorcycles, bicycles, and parts -----	-	11	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
376	Guided missiles, space vehicles, parts -----	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3784	Space propulsion units and parts -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
379	Miscellaneous transportation equipment -----	-	55	12	1.7	18.0	1.4	2.4	13.0	24.9	85.2	114.9	(D)	2.6	35.3
3792	Travel trailers and campers --	-	21	6	1.3	14.2	1.1	1.9	10.9	17.9	71.0	93.9	(D)	EE	(D)
3799	Transportation equipment, n.e.c. -----	E7	32	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	13.7

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture ³ (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
38	Instruments and related products -----	-	331	129	23.1	275.0	15.5	29.3	148.1	518.5	304.3	518.0	17.7	19.4	307.2
3811	Engineering and scientific instruments -----	E1	32	13	1.2	14.7	0.7	1.4	7.7	29.4	19.0	47.9	2.7	0.5	8.5
382	Measuring and controlling devices -----	-	124	63	16.0	194.5	10.6	20.2	102.5	353.3	182.9	531.9	9.4	14.1	223.5
3822	Environmental controls -----	-	24	16	6.9	88.9	5.7	10.5	51.2	121.2	59.9	178.8	3.0	5.3	71.9
3823	Process control instruments -----	-	19	9	3.2	45.5	1.5	3.0	18.4	85.8	40.8	127.4	1.5	3.6	49.2
3825	Instruments to measure electricity -----	-	39	20	3.0	33.7	2.0	3.8	16.4	68.0	38.6	104.3	2.5	2.8	48.3
3829	Measuring and controlling devices, n.e.c. -----	-	39	16	2.9	45.7	1.4	2.9	16.1	77.0	42.8	119.4	2.3	EE	(D)
3832	Optical instruments and lenses -----	-	8	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
384	Medical instruments and supplies -----	E1	110	39	4.2	44.8	3.1	5.8	27.5	91.1	76.9	167.0	3.6	3.4	51.1
3841	Surgical and medical instruments -----	E2	20	7	0.9	9.2	0.7	1.2	6.2	17.9	20.7	39.0	1.0	CC	(D)
3842	Surgical appliances and supplies -----	-	74	26	2.8	28.5	2.0	3.8	17.7	61.2	47.1	106.8	1.8	1.8	22.4
3843	Dental equipment and supplies -----	-	16	6	0.6	7.0	0.4	0.7	3.5	12.0	9.1	21.4	0.8	CC	(D)
3851	Ophthalmic goods -----	E2	33	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	4.2
3861	Photographic equipment and supplies -----	-	22	8	0.7	8.7	0.5	1.0	5.5	21.2	15.0	35.8	0.7	CC	(D)
39	Miscellaneous manufacturing industries -----	-	590	146	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	18.6	286.2
391	Jewelry, silverware, and plated ware -----	E2	59	8	0.8	7.9	0.6	1.1	4.8	14.7	18.9	33.0	(D)	0.5	9.0
3911	Jewelry, precious metal -----	E2	36	6	0.5	5.3	0.4	0.6	2.7	8.6	13.2	21.6	(D)	0.3	5.5
3914	Silverware and plated ware -----	E1	12	2	0.2	2.3	0.2	0.4	1.9	5.4	4.7	9.7	(D)	(NA)	(NA)
3931	Musical instruments -----	-	20	8	1.5	16.2	1.1	2.0	10.3	24.7	16.9	41.7	(D)	EE	(D)
394	Toys and sporting goods -----	-	96	24	6.1	57.6	4.5	9.2	38.8	226.0	173.4	389.9	(D)	6.4	103.5
3944	Games, toys, and children's vehicles -----	-	33	8	3.4	30.8	2.4	5.1	19.4	148.1	93.7	235.9	9.0	4.0	66.5
3949	Sporting and athletic goods, n.e.c. -----	-	60	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
395	Pens, pencils, office and art supplies -----	-	47	14	1.2	12.4	0.7	1.4	6.5	28.1	23.0	50.0	(D)	1.7	28.8
3952	Lead pencils and art goods -----	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3953	Marking devices -----	-	37	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	7.8
3955	Carbon paper and inked ribbons -----	-	4	3	0.4	4.5	0.2	0.5	2.4	8.0	11.0	18.7	0.5	CC	(D)
399	Miscellaneous manufactures -----	-	357	91	7.7	84.2	5.8	11.0	52.3	163.6	131.7	293.7	(D)	8.6	125.2
3991	Brooms and brushes -----	-	27	16	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3993	Signs and advertising displays -----	E1	173	44	3.2	35.4	2.4	4.6	22.3	66.0	44.4	109.9	2.3	FF	(D)
3995	Burial caskets -----	-	22	6	0.5	6.6	0.4	0.8	3.7	12.2	8.9	20.6	0.3	1.1	15.3
3999	Manufacturing industries, n.e.c. -----	E1	133	25	2.1	19.0	1.7	3.0	12.2	36.3	34.0	71.6	1.8	2.3	29.1
-	Administrative and auxiliary -----	-	531	314	81.7	1 602.3	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

² Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

³ Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Cincinnati-Hamilton, Ohio-Ky.-Ind., SCSA -----	-	2 373	958	189.6	2 944.3	117.7	238.4	1 618.9	6 608.2	7 196.2	13 769.5	357.1	185.5	4 145.4
20	Food and kindred products --	-	157	79	16.2	249.8	10.3	21.9	155.3	795.5	1 183.0	1 976.7	(D)	(NA)	(NA)
2011	Meat packing plants ----	-	17	7	1.4	24.5	1.0	2.0	16.1	49.9	179.2	229.8	(D)	(NA)	(NA)
2026	Fluid milk ----	-	15	8	1.0	15.7	0.5	1.1	7.4	28.9	123.9	152.9	3.5	(NA)	(NA)
203	Preserved fruits and vegetables ----	-	12	6	0.6	6.4	0.5	0.9	5.1	32.5	51.8	84.3	1.2	(NA)	(NA)
2033	Canned fruits and vegetables ----	-	7	5	0.5	5.6	0.5	0.9	4.7	30.6	48.4	79.0	(D)	(NA)	(NA)
2085	Distilled liquor, except brandy ----	-	5	5	2.6	44.6	2.1	4.7	35.0	155.5	134.7	290.4	3.9	(NA)	(NA)
22	Textile mill products ----	-	15	6	0.8	8.0	0.5	1.1	5.3	21.8	16.4	37.7	1.0	(NA)	(NA)
229	Miscellaneous textile goods ----	-	5	3	0.5	5.1	0.3	0.7	3.1	14.9	9.1	23.5	(D)	(NA)	(NA)
24	Lumber and wood products --	-	75	23	1.6	15.7	1.3	2.6	10.8	35.0	39.9	74.2	1.4	(NA)	(NA)
25	Furniture and fixtures ----	-	61	24	3.7	36.5	3.0	5.3	24.9	72.4	88.3	159.6	(D)	4.6	66.9
26	Paper and allied products ---	-	110	74	12.0	168.0	9.5	19.6	126.2	318.4	473.9	795.2	18.3	12.3	222.9
265	Paperboard containers and boxes ----	-	53	36	4.8	59.8	3.8	7.5	44.2	118.2	167.7	283.0	(D)	(NA)	(NA)
27	Printing and publishing ----	-	377	103	13.2	165.0	8.0	14.9	97.1	369.3	215.3	581.7	(D)	14.3	269.7
2721	Periodicals ----	-	18	4	0.9	6.0	0.1	0.3	2.1	32.1	6.0	37.8	(D)	(NA)	(NA)
2741	Miscellaneous publishing ----	-	13	3	0.4	3.8	0.1	0.2	1.0	8.2	13.1	21.2	0.1	(NA)	(NA)
2752	Commercial printing, lithographic ----	-	115	27	3.5	45.8	2.7	4.9	33.1	88.5	54.3	142.8	(D)	(NA)	(NA)
278	Blankbooks and bookbinding ----	-	16	12	0.7	6.8	0.5	1.0	4.9	12.6	4.1	16.6	0.3	(NA)	(NA)
2782	Blankbooks and looseleaf binders ----	-	6	6	0.4	4.0	0.3	0.5	2.8	8.0	2.7	10.7	0.2	(NA)	(NA)
2789	Bookbinding and related work ----	-	10	6	0.3	2.8	0.3	0.4	2.1	4.6	1.4	5.9	0.1	(NA)	(NA)
279	Printing trade services ----	-	32	12	0.6	10.4	0.4	0.8	7.4	16.2	4.1	20.0	0.8	(NA)	(NA)
2795	Lithographic platemaking services --	-	12	8	0.3	7.0	0.2	0.5	5.0	10.7	3.1	13.6	0.4	(NA)	(NA)
28	Chemicals and allied products ----	-	120	53	12.9	207.4	7.7	15.2	113.2	1 274.7	919.6	2 185.6	53.8	11.9	798.9
281	Industrial inorganic chemicals ----	-	17	7	1.1	17.9	0.7	1.4	10.4	65.1	46.2	112.0	(D)	(NA)	(NA)
2851	Paints and allied products ----	-	13	6	0.6	8.7	0.3	0.6	3.4	32.8	33.9	65.7	0.6	(NA)	(NA)
288	Industrial organic chemicals ----	-	10	6	2.1	32.6	1.5	2.8	21.0	92.5	120.2	205.1	11.0	(NA)	(NA)
2893	Printing ink ----	-	12	7	0.6	7.6	0.3	0.6	4.4	18.2	25.5	43.4	(D)	(NA)	(NA)
2952	Asphalt felts and coatings ----	-	5	3	1.2	15.7	1.0	2.1	12.8	41.9	44.3	85.1	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products ----	-	84	37	4.9	62.0	3.9	7.7	43.4	130.8	144.7	274.5	27.5	(NA)	(NA)
31	Leather and leather products ----	-	11	4	1.1	8.8	0.9	1.7	6.5	17.9	9.7	27.6	0.1	(NA)	(NA)
34	Fabricated metal products ---	-	289	137	20.1	298.8	15.5	31.2	209.8	608.0	659.3	1 261.3	38.2	19.3	363.2
341	Metal cans and shipping containers ----	-	5	5	1.4	21.6	1.1	2.4	16.2	51.6	76.8	127.6	2.9	(NA)	(NA)
3452	Bolts, nuts, rivets, and washers ----	-	7	5	0.3	4.0	0.2	0.4	2.6	10.8	10.0	20.7	0.4	(NA)	(NA)
349	Miscellaneous fabricated metal products ----	-	76	31	6.1	78.5	4.5	8.5	50.5	168.4	140.1	309.4	(D)	(NA)	(NA)
354	Metalworking machinery ---	-	108	36	10.5	163.6	5.7	11.6	83.4	274.2	147.9	428.8	12.9	(NA)	(NA)
356	General industrial machinery ----	-	52	23	4.8	56.1	3.4	5.8	33.5	128.9	117.3	246.7	(D)	(NA)	(NA)
3584	Blowers and fans ----	-	12	4	0.3	3.4	0.2	0.4	2.1	6.7	6.3	12.9	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical ----	E1	148	22	1.9	22.8	1.5	2.7	15.3	43.8	22.2	65.4	2.6	(NA)	(NA)
382	Electrical industrial apparatus ----	-	10	5	2.2	33.9	1.2	2.7	15.7	61.5	37.1	98.2	(D)	(NA)	(NA)
384	Electric lighting and wiring equipment ----	-	17	13	1.8	19.4	1.2	2.3	10.9	40.6	38.5	77.8	1.2	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Cincinnati-Hamilton, Ohio-Ky.-Ind., SCSA—Con.														
364	Electric lighting and wiring equipment—Con.														
3643	Current-carrying wiring devices -----	-	9	8	1.0	10.9	0.7	1.4	8.5	21.0	17.2	38.3	0.6	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies --	-	8	3	0.8	7.1	0.4	0.8	4.4	12.1	8.9	22.3	(D)	(NA)	(NA)
38	Instruments and related products -----	E1	49	20	1.8	21.2	1.2	2.3	11.5	40.5	36.6	76.1	1.8	(NA)	(NA)
382	Measuring and controlling devices -----	-	20	11	0.6	7.5	0.4	0.7	3.4	13.4	8.0	21.2	0.5	(NA)	(NA)
3829	Measuring and controlling devices, n.e.c. -----	-	10	7	0.4	4.0	0.2	0.4	1.7	7.4	4.1	11.4	0.2	(NA)	(NA)
384	Medical instruments and supplies -----	E1	16	4	0.8	8.7	0.5	1.0	5.0	21.7	22.1	43.3	1.1	(NA)	(NA)
3944	Games, toys, and children's vehicles ----	-	5	1	1.9	17.3	1.3	3.1	11.8	83.8	61.5	151.7	(D)	(NA)	(NA)
	Cleveland-Akron-Lorain SCSA -----	-	5 877	2 184	388.7	5 278.8	256.4	520.3	3 744.5	11 966.8	14 173.4	25 950.7	793.7	399.1	7 925.5
22	Textile mill products -----	-	32	13	2.6	29.3	2.0	3.8	14.7	62.4	39.0	103.5	(D)	(NA)	(NA)
24	Lumber and wood products --	E1	112	18	1.3	15.5	1.0	2.0	10.9	30.2	39.4	68.9	1.1	(NA)	(NA)
2514	Metal household furniture -----	-	6	3	0.5	4.9	0.4	0.8	3.6	9.3	15.5	24.9	0.1	(NA)	(NA)
2642	Envelopes -----	-	4	3	0.5	6.4	0.4	0.8	4.1	9.5	9.7	19.1	(D)	(NA)	(NA)
2741	Miscellaneous publishing -----	E1	24	7	0.4	4.4	0.2	0.3	1.3	8.0	2.5	10.5	0.2	(NA)	(NA)
2761	Manifold business forms -----	E1	12	3	0.3	3.9	0.2	0.4	2.7	7.3	7.2	14.4	0.3	(NA)	(NA)
279	Printing trade services ----	-	71	14	0.8	12.6	0.6	1.1	8.6	20.8	8.8	27.5	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	263	101	14.1	222.2	8.8	17.8	121.0	720.7	955.5	1 671.3	(D)	19.0	508.8
284	Soaps, cleaners, and toilet goods -----	-	47	12	1.0	12.9	0.6	1.2	6.3	75.0	70.3	142.7	(D)	(NA)	(NA)
3293	Gaskets, packing, and sealing devices -----	-	15	8	0.5	5.1	0.4	0.7	3.1	9.6	8.8	18.1	(D)	(NA)	(NA)
332	Iron and steel foundries ---	-	34	23	9.0	178.2	7.6	16.7	145.8	373.6	235.1	608.7	28.5	(NA)	(NA)
34	Fabricated metal products ---	-	980	437	66.1	1 018.1	50.9	104.3	730.9	2 124.0	2 116.6	4 211.7	114.3	81.8	1 286.7
3411	Metal cans -----	-	3	2	0.5	7.2	0.4	1.0	5.6	24.1	28.3	52.7	(D)	(NA)	(NA)
344	Fabricated structural metal products -----	-	183	78	11.4	145.0	7.9	15.0	95.3	359.2	461.3	834.6	13.0	(NA)	(NA)
3449	Miscellaneous metal work -----	-	8	2	0.4	6.7	0.3	0.5	2.9	22.0	17.9	39.5	(D)	(NA)	(NA)
345	Screw machine products, bolts, etc. -----	-	143	80	8.4	119.4	8.5	13.2	81.8	255.9	203.8	463.8	14.6	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	175	73	8.5	111.2	6.3	12.6	71.0	258.0	247.7	484.4	(D)	(NA)	(NA)
3494	Valves and pipe fittings -	-	38	24	3.7	49.5	2.5	5.3	31.1	134.1	122.2	237.9	(D)	(NA)	(NA)
3498	Fabricated pipe and fittings -----	-	13	5	0.5	6.0	0.4	0.8	4.1	20.8	17.0	35.5	0.7	(NA)	(NA)
35	Machinery, except electrical -	-	1 533	439	58.9	906.6	41.6	84.6	578.5	1 783.9	1 295.6	3 058.5	94.3	57.2	1 138.1
352	Farm and garden machinery -----	-	11	8	0.5	5.2	0.5	1.0	3.1	12.3	12.9	25.0	(D)	(NA)	(NA)
354	Metalworking machinery ---	-	494	153	17.5	268.3	12.9	26.8	177.2	518.4	229.4	748.8	(D)	(NA)	(NA)
3542	Machine tools, metal forming types -----	-	18	10	1.2	18.8	0.8	1.6	10.7	37.3	25.9	65.0	0.9	(NA)	(NA)
3546	Power driven hand tools -----	-	6	5	0.6	9.4	0.4	0.8	5.3	24.9	8.8	31.3	1.6	(NA)	(NA)
355	Special industry machinery -----	-	107	63	7.9	118.7	5.1	10.3	70.8	222.6	170.8	383.1	(D)	(NA)	(NA)
356	General industrial machinery -----	-	164	50	5.6	82.5	3.7	7.4	49.6	187.7	112.5	300.8	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	253	134	24.5	350.8	16.7	32.6	204.6	859.0	712.6	1 551.2	51.6	(NA)	(NA)
3648	Lighting equipment, n.e.c. -----	-	6	4	0.4	5.6	0.4	0.7	3.9	8.9	9.3	19.6	0.1	(NA)	(NA)
39	Miscellaneous manufacturing industries ---	-	199	53	4.7	49.6	3.6	6.7	31.3	95.6	76.0	172.0	(D)	5.2	78.9
3931	Musical instruments -----	-	9	3	0.6	6.4	0.5	1.0	4.5	12.1	8.8	20.7	(D)	(NA)	(NA)
	Akron SMSA -----	-	1 061	406	83.5	1 305.4	50.1	98.4	699.4	2 014.2	2 205.8	4 158.1	156.8	94.4	1 686.2
20	Food and kindred products --	E1	50	16	2.4	32.3	1.3	2.7	16.3	95.4	130.4	221.4	9.6	6.3	79.9

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Akron SMSA—Con.														
20	Food and kindred products— Con.														
205	Bakery products-----	-	15	5	0.6	8.9	0.4	0.8	5.2	20.5	19.2	39.7	5.7	(NA)	(NA)
2051	Bread, cake, and related products-----	-	15	5	0.6	8.9	0.4	0.8	5.2	20.5	19.2	39.7	5.7	(NA)	(NA)
208	Beverages-----	E2	6	5	0.7	9.5	0.2	0.4	2.4	28.6	39.4	67.1	(D)	0.6	13.0
22	Textile mill products-----	-	8	4	0.4	3.8	0.3	0.5	2.5	8.8	10.8	19.6	(D)	(NA)	(NA)
23	Apparel and other textile products-----	E1	21	8	0.4	3.8	0.4	0.7	2.7	7.0	7.9	14.6	0.3	(NA)	(NA)
24	Lumber and wood products--	-	17	3	0.3	3.4	0.3	0.5	2.9	6.2	10.1	15.8	0.2	0.4	9.9
26	Paper and allied products---	-	17	10	1.4	20.4	0.9	1.9	10.4	43.5	54.5	98.1	(D)	1.2	28.5
264	Miscellaneous converted paper products-----	-	10	5	1.1	16.0	0.7	1.5	7.5	34.2	41.2	75.4	(D)	(NA)	(NA)
27	Printing and publishing-----	E1	117	27	2.6	35.1	1.7	3.2	21.8	67.7	29.4	97.0	3.1	2.2	42.5
275	Commercial printing-----	E2	70	12	0.8	9.8	0.6	1.2	6.8	18.2	11.1	29.2	1.4	0.6	9.5
2751	Commercial printing, letterpress-----	E3	40	3	0.3	3.2	0.3	0.5	2.2	6.8	5.3	12.1	0.4	0.3	3.1
28	Chemicals and allied products-----	-	41	19	3.3	54.8	2.0	4.2	30.1	149.9	188.4	337.3	19.6	3.7	105.9
282	Plastics materials and synthetics-----	-	3	3	0.7	12.3	0.4	0.9	6.7	22.8	88.7	112.0	(D)	0.7	26.3
284	Soaps, cleaners, and toilet goods-----	-	7	4	0.4	4.1	0.3	0.5	2.6	21.7	14.2	35.3	0.4	(NA)	(NA)
2851	Paints and allied products-----	-	6	5	0.3	4.0	0.2	0.3	1.7	12.2	13.3	25.3	0.4	(NA)	(NA)
289	Miscellaneous chemical products-----	-	14	3	0.3	4.7	0.2	0.5	3.3	11.0	8.2	19.3	(D)	0.3	7.6
30	Rubber and miscellaneous plastics products-----	-	126	77	27.7	480.5	17.6	35.2	266.2	638.3	828.6	1 419.9	58.2	32.6	746.9
32	Stone, clay, and glass products-----	-	49	20	1.9	26.9	1.4	2.8	17.9	64.7	49.8	116.1	4.9	2.9	50.5
33	Primary metal industries---	-	25	12	1.5	18.8	1.2	2.3	14.1	39.4	36.7	76.0	2.1	1.4	22.5
332	Iron and steel foundries---	E1	11	6	1.0	11.7	0.8	1.5	8.6	20.9	10.5	31.4	1.4	1.0	13.5
336	Nonferrous foundries-----	-	7	4	0.3	3.0	0.2	0.4	2.3	6.2	5.0	11.1	0.2	(NA)	(NA)
34	Fabricated metal products---	-	139	56	13.5	198.6	10.6	20.4	149.1	426.1	453.6	891.5	20.0	13.6	262.0
342	Cutlery, hand tools, and hardware-----	-	13	8	0.8	9.6	0.6	1.2	6.5	21.9	17.7	39.2	1.0	0.6	11.2
3423	Hand and edge tools, n.e.c.-----	-	10	5	0.6	8.1	0.5	0.9	5.3	18.5	13.0	31.4	(D)	(NA)	(NA)
344	Fabricated structural metal products-----	-	41	14	5.3	68.4	3.7	6.6	46.7	187.8	252.0	455.1	6.0	6.0	124.2
345	Screw machine products, bolts, etc.-----	-	9	3	0.7	9.7	0.6	1.1	7.7	26.5	13.3	38.7	0.4	0.6	15.9
346	Metal forgings and stampings-----	-	25	16	5.5	85.0	4.9	9.6	78.0	159.2	150.1	307.1	9.4	5.4	93.2
3469	Metal stampings, n.e.c.---	-	12	7	0.4	5.1	0.3	0.6	3.2	9.3	7.3	16.5	(D)	(NA)	(NA)
348	Miscellaneous fabricated metal products-----	-	18	7	0.6	7.9	0.5	0.9	5.0	18.6	12.7	31.5	2.4	0.6	12.0
3494	Valves and pipe fittings---	-	4	4	0.4	5.7	0.3	0.6	3.7	14.6	7.5	22.4	(D)	0.5	10.8
35	Machinery, except electrical	-	316	96	11.5	182.7	8.1	16.8	115.9	275.1	257.6	522.7	28.6	10.8	183.7
353	Construction and related machinery-----	-	13	7	3.1	63.6	1.8	3.9	36.0	64.3	128.8	187.2	(D)	(NA)	(NA)
354	Metalworking machinery---	-	97	37	2.9	44.5	2.4	5.2	33.1	75.7	26.5	102.2	(D)	2.2	39.7
355	Special industry machinery-----	-	33	24	2.9	41.7	1.9	3.7	23.9	76.0	55.8	128.9	(D)	3.5	58.8
3559	Special industry machinery, n.e.c.-----	-	26	20	2.7	38.8	1.7	3.5	22.3	68.8	52.3	118.5	2.6	3.1	49.7
356	General industrial machinery-----	-	34	7	0.8	12.3	0.6	1.3	8.2	22.6	23.8	46.0	(D)	0.6	14.1
36	Electric and electronic equipment-----	-	34	15	1.6	20.2	1.2	2.3	12.3	46.7	30.1	76.6	1.9	1.8	34.1
362	Electrical industrial apparatus-----	E2	7	4	0.5	7.3	0.3	0.6	3.4	11.0	5.2	15.6	0.7	1.1	24.9
37	Transportation equipment---	-	18	7	3.8	58.6	1.9	3.6	26.6	101.5	85.2	175.7	3.5	5.3	85.4

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Akron SMSA—Con.														
38	Instruments and related products-----	-	13	7	0.4	4.5	0.2	0.4	2.0	13.3	6.7	19.7	0.7	0.5	6.8
39	Miscellaneous manufacturing industries ---	E1	25	5	0.4	4.1	0.3	0.5	2.5	8.1	3.7	11.6	(D)	1.0	15.2
	Canton SMSA -----	-	603	235	57.2	856.4	41.8	80.8	801.5	1 897.5	2 405.6	4 262.4	121.2	57.6	1 151.6
20	Food and kindred products --	-	50	20	5.0	56.6	2.9	5.7	35.2	150.1	343.0	492.6	9.1	4.9	85.0
202	Dairy products -----	-	11	5	0.7	8.0	0.3	0.5	2.6	27.2	59.9	88.8	(D)	0.7	12.0
23	Apparel and other textile products-----	-	15	4	0.3	2.1	0.3	0.4	1.8	3.6	2.5	6.1	(D)	(NA)	(NA)
24	Lumber and wood products--	E3	18	4	0.3	3.1	0.3	0.8	2.3	6.0	6.3	11.9	0.3	0.3	3.5
26	Paper and allied products ---	-	21	13	1.1	13.4	0.9	2.0	10.1	29.8	45.3	74.9	2.0	1.2	18.5
265	Paperboard containers and boxes-----	-	11	6	0.6	7.6	0.5	1.1	5.6	16.2	24.9	41.0	1.2	0.6	10.2
2653	Corrugated and solid fiber boxes -----	-	6	3	0.4	5.2	0.3	0.7	3.9	11.8	19.5	31.3	(D)	0.4	7.3
27	Printing and publishing -----	-	60	16	1.9	22.7	1.3	2.5	14.3	47.0	26.7	73.5	1.5	2.0	31.3
2711	Newspapers -----	-	9	3	0.4	4.7	0.2	0.3	2.0	16.5	4.3	20.7	0.4	0.5	10.0
275	Commercial printing -----	-	35	8	1.1	13.9	0.9	1.7	10.3	21.5	15.4	36.8	0.8	1.2	18.3
2752	Commercial printing, lithographic -----	-	15	5	0.8	9.9	0.6	1.2	7.6	15.4	10.0	25.4	0.4	1.1	16.6
28	Chemicals and allied products-----	-	22	10	0.6	8.2	0.3	0.6	3.5	49.5	40.2	89.4	0.8	0.6	29.0
2851	Paints and allied products -----	-	5	5	0.3	3.9	0.1	0.2	1.2	10.2	14.4	24.8	0.2	(NA)	(NA)
30	Rubber and miscellaneous plastics products-----	-	33	17	3.5	42.9	2.5	5.6	30.2	88.7	85.1	171.5	5.7	3.9	59.3
3069	Fabricated rubber products, n.e.c. -----	-	10	8	2.5	33.1	2.0	4.0	24.7	69.4	64.5	132.2	(D)	2.7	42.1
33	Primary metal industries ----	-	28	18	14.3	267.5	11.6	23.1	208.4	674.1	714.0	1 356.5	(D)	14.0	347.7
331	Blast furnace and basic steel products-----	-	10	7	11.2	221.7	9.1	18.1	174.2	588.9	665.4	1 223.8	(D)	10.7	288.4
332	Iron and steel foundries ---	-	7	5	2.0	31.3	1.7	3.4	24.7	58.5	28.5	84.5	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	104	51	10.2	160.6	7.8	15.4	116.8	346.0	385.9	734.9	24.5	10.8	244.6
342	Cutlery, hand tools, and hardware -----	-	6	5	0.5	5.5	0.4	0.7	3.9	12.2	11.0	23.0	(D)	0.5	7.4
344	Fabricated structural metal products -----	-	29	15	2.0	25.7	1.6	3.0	19.7	62.9	54.3	118.3	2.1	1.7	35.3
345	Screw machine products, bolts, etc. -----	-	6	3	0.5	6.0	0.4	0.7	4.7	13.3	10.8	23.9	0.4	0.5	7.8
346	Metal forgings and stampings -----	-	19	14	3.9	76.2	3.3	7.0	63.7	149.2	220.4	369.5	19.4	4.1	93.3
3462	Iron and steel forgings ---	-	8	8	2.9	62.3	2.5	5.3	51.9	115.4	187.0	302.2	18.2	3.0	72.3
347	Metal services, n.e.c. -----	-	24	3	0.4	3.8	0.3	0.7	2.9	7.2	3.9	10.9	0.3	0.3	4.2
35	Machinery, except electrical -	-	104	25	8.2	135.8	6.5	12.2	99.5	232.2	249.6	471.4	18.6	7.8	114.6
354	Metalworking machinery ---	-	28	7	0.5	6.5	0.4	0.8	5.0	8.8	4.2	13.6	0.6	0.5	8.6
359	Miscellaneous machinery, except electrical -----	E2	43	4	0.3	4.2	0.3	0.6	2.7	7.1	2.6	9.7	0.5	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E2	43	4	0.3	4.2	0.3	0.6	2.7	7.1	2.6	9.7	0.5	(NA)	(NA)
37	Transportation equipment ---	E1	14	1	0.5	8.4	0.4	0.8	6.0	15.8	12.7	29.4	0.2	(NA)	(NA)
38	Instruments and related products-----	-	10	5	0.6	5.5	0.4	0.8	3.5	9.1	5.6	14.6	0.3	0.6	10.1
382	Measuring and controlling devices -----	-	6	4	0.5	5.1	0.4	0.7	3.2	8.2	5.2	13.4	0.3	(NA)	(NA)
--	Administrative and auxiliary --	-	15	9	2.7	31.2	-	-	-	-	-	-	-	(NA)	(NA)
	Cincinnati, Ohio-Ky.-Ind., SMSA -----	-	2 135	856	160.2	2 435.8	87.2	197.9	1 289.5	5 645.9	6 043.1	11 647.9	(D)	157.6	3 561.2

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977										1972		
			All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
	Cincinnati, Ohio-Ky.-Ind., SMSA—Con.														
20	Food and kindred products --	-	150	77	15.9	245.9	10.1	21.6	152.8	750.9	1 162.1	1 911.3	26.6	18.5	579.2
201	Meat products -----	-	31	14	2.3	39.1	1.7	3.5	27.1	71.0	264.6	336.3	3.4	2.7	48.4
2011	Meat packing plants -----	-	17	7	1.4	24.5	1.0	2.0	16.1	49.9	179.2	229.8	(D)	2.0	36.6
202	Dairy products -----	-	20	10	1.1	16.8	0.5	1.2	8.1	31.1	131.4	162.6	3.7	1.4	26.2
2026	Fluid milk -----	-	15	8	1.0	15.7	0.5	1.1	7.4	28.9	123.9	152.9	3.5	1.3	23.4
203	Preserved fruits and vegetables -----	-	12	6	0.6	6.4	0.5	0.9	5.1	32.5	51.8	84.3	1.2	0.7	17.4
2033	Canned fruits and vegetables -----	-	7	5	0.5	5.6	0.5	0.9	4.7	30.6	48.4	79.0	(D)	0.4	11.0
208	Beverages -----	-	21	15	4.8	77.7	3.1	6.7	48.7	240.0	214.4	453.9	8.7	6.1	257.2
2085	Distilled liquor, except brandy -----	-	5	5	2.6	44.6	2.1	4.7	35.0	155.5	134.7	290.4	3.9	3.6	193.1
2086	Bottled and canned soft drinks -----	-	6	4	1.3	17.8	0.4	0.8	4.8	43.2	38.5	81.1	(D)	1.2	22.2
209	Miscellaneous foods and kindred products -----	-	20	7	1.5	17.8	0.6	1.3	6.9	56.8	101.8	157.8	1.4	1.5	30.3
22	Textile mill products -----	-	15	6	0.8	8.0	0.5	1.1	5.3	21.8	16.4	37.7	1.0	(NA)	(NA)
229	Miscellaneous textile goods -----	-	5	3	0.5	5.1	0.3	0.7	3.1	14.9	9.1	23.5	(D)	(NA)	(NA)
23	Apparel and other textile products -----	-	53	27	3.9	32.8	2.9	5.1	18.8	72.9	77.6	149.5	2.4	4.2	49.4
239	Miscellaneous fabricated textile products -----	-	28	11	1.5	11.9	1.2	2.2	7.9	28.9	42.3	71.7	1.8	1.2	16.4
2392	House furnishings, n.e.c. -----	-	6	4	0.7	5.1	0.6	1.1	3.4	11.9	14.3	25.9	(D)	(NA)	(NA)
24	Lumber and wood products --	-	62	19	1.4	13.4	1.1	2.3	9.2	26.2	28.3	54.2	1.2	1.1	16.1
243	Millwork, plywood, and structural members -----	E1	17	9	0.6	5.0	0.5	0.9	3.7	9.7	9.6	18.8	0.6	0.5	8.1
2434	Wood kitchen cabinets --	E3	8	4	0.3	1.9	0.2	0.4	1.5	3.5	2.5	5.8	(Z)	(NA)	(NA)
249	Miscellaneous wood products -----	-	24	7	0.6	5.6	0.5	0.9	3.7	11.7	10.8	22.4	0.4	0.4	5.8
25	Furniture and fixtures -----	-	54	18	2.6	25.9	2.1	4.0	18.0	53.4	64.2	117.3	1.3	4.0	55.9
251	Household furniture -----	-	29	12	1.9	18.9	1.6	3.0	13.5	41.8	51.9	93.7	0.9	2.7	35.3
2515	Mattresses and bedsprings -----	-	11	7	1.0	10.3	0.8	1.5	7.1	25.1	38.9	64.3	0.5	1.1	15.8
254	Partitions and fixtures -----	-	18	3	0.4	4.7	0.3	0.6	2.8	7.0	9.5	16.3	(D)	(NA)	(NA)
26	Paper and allied products --	-	92	56	6.6	84.5	5.1	10.5	61.2	175.5	240.1	413.6	11.4	6.5	117.0
2631	Paperboard mills -----	-	4	4	0.6	11.4	0.5	1.2	9.5	25.9	26.5	52.2	1.7	0.7	14.3
264	Miscellaneous converted paper products -----	E1	36	19	1.9	22.4	1.4	2.8	14.0	49.6	70.8	120.5	2.4	2.1	39.3
265	Paperboard containers and boxes -----	-	46	29	3.7	45.7	3.0	5.9	33.8	91.8	130.0	219.8	6.9	3.4	58.1
2651	Folding paperboard boxes -----	-	15	10	2.0	23.6	1.7	3.4	19.3	50.4	66.0	114.0	4.8	1.7	31.7
2653	Corrugated and solid fiber boxes -----	-	18	10	1.3	18.0	0.9	1.8	11.9	33.8	51.8	85.5	1.6	1.4	22.4
27	Printing and publishing -----	-	352	96	12.6	157.6	7.6	14.2	92.8	353.1	210.7	561.0	16.1	13.6	237.0
2711	Newspapers -----	-	38	9	2.1	28.5	1.0	1.8	14.1	60.9	27.8	88.8	(D)	(NA)	(NA)
2721	Periodicals -----	-	18	4	0.9	6.0	0.1	0.3	2.1	32.1	6.0	37.8	(D)	0.9	21.8
273	Books -----	E1	16	7	1.0	13.9	0.5	1.1	6.9	53.1	25.8	77.6	1.8	1.1	28.5
2741	Miscellaneous publishing -----	-	13	3	0.4	3.8	0.1	0.2	1.0	8.2	13.1	21.2	0.1	0.4	4.1
2751	Commercial printing, letterpress -----	-	100	17	1.3	15.4	1.0	1.9	10.2	26.6	40.4	67.1	3.4	(NA)	(NA)
2752	Commercial printing, lithographic -----	-	105	26	3.4	44.5	2.6	4.7	32.2	86.2	53.2	139.4	4.2	3.7	65.5
278	Blankbooks and bookbinding -----	-	16	12	0.7	6.8	0.5	1.0	4.9	12.6	4.1	16.6	0.3	0.5	6.7
2782	Blankbooks and looseleaf binders -----	-	6	6	0.4	4.0	0.3	0.5	2.8	8.0	2.7	10.7	0.2	(NA)	(NA)
2789	Bookbinding and related work -----	-	10	6	0.3	2.8	0.3	0.4	2.1	4.6	1.4	5.9	0.1	0.4	3.4
279	Printing trade services -----	-	32	12	0.6	10.4	0.4	0.8	7.4	16.2	4.1	20.0	0.8	0.8	13.0

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Cincinnati, Ohio-Ky.-Ind., SMSA—Con.														
27 279	Printing and publishing—Con. Printing trade services—Con.														
2795	Lithographic platemaking services --	-	12	8	0.3	7.0	0.2	0.5	5.0	10.7	3.1	13.6	0.4	(NA)	(NA)
28	Chemicals and allied products -----	-	112	49	12.7	205.7	7.5	15.0	112.0	1 267.7	906.1	2 165.3	53.2	12.2	803.8
281	Industrial inorganic chemicals -----	-	13	5	1.1	16.8	0.7	1.3	9.5	58.9	35.6	96.3	1.9	1.1	35.1
2819	Industrial inorganic chemicals, n.e.c. -----	-	7	5	1.0	16.5	0.6	1.2	9.3	58.3	34.4	93.4	1.8	1.0	33.0
2851	Paints and allied products -----	-	13	6	0.6	8.7	0.3	0.6	3.4	32.8	33.9	65.7	0.6	0.7	14.1
286	Industrial organic chemicals -----	-	10	6	2.1	32.6	1.5	2.8	21.0	92.5	120.2	205.1	11.0	1.6	39.8
289	Miscellaneous chemical products -----	-	29	13	1.8	23.9	1.1	1.8	12.9	75.9	99.5	175.0	4.6	1.7	50.2
2893	Printing ink -----	-	12	7	0.6	7.6	0.3	0.6	4.4	18.2	25.5	43.4	(D)	0.7	15.0
29	Petroleum and coal products -----	-	23	7	1.6	23.8	1.3	2.7	18.5	63.5	301.3	360.7	3.1	1.3	45.9
295	Paving and roofing materials -----	-	14	3	1.3	16.6	1.1	2.2	13.5	43.9	51.1	94.1	1.6	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	77	33	4.7	59.8	3.7	7.4	41.8	125.8	139.8	264.6	27.5	4.5	89.8
31	Leather and leather products -----	-	11	4	1.1	8.8	0.9	1.7	6.5	17.9	9.7	27.6	0.1	1.3	13.9
32	Stone, clay, and glass products -----	-	100	29	2.3	28.1	1.7	3.3	18.4	64.2	56.9	130.2	5.1	2.3	48.4
327	Concrete, gypsum, and plaster products -----	E1	57	16	0.9	10.2	0.5	1.1	5.6	23.2	25.7	49.0	2.4	0.9	18.5
3272	Concrete products, n.e.c. -----	-	17	6	0.3	3.5	0.2	0.4	2.1	6.0	4.9	11.1	0.3	0.3	5.8
3273	Ready-mixed concrete -----	E2	31	9	0.5	5.8	0.3	0.5	3.0	15.3	18.2	33.5	2.0	0.5	11.1
329	Miscellaneous nonmetallic mineral products -----	-	21	5	0.4	5.4	0.3	0.5	2.7	12.5	14.7	27.3	0.4	0.6	15.1
33	Primary metal industries -----	-	53	31	5.0	74.3	3.9	7.9	53.5	130.3	142.5	265.4	6.6	4.9	83.9
332	Iron and steel foundries -----	-	9	7	0.8	8.9	0.6	1.1	6.2	15.6	8.2	24.8	(D)	0.9	9.6
336	Nonferrous foundries -----	-	20	12	0.9	12.3	0.8	1.6	9.9	27.1	20.1	46.4	1.1	0.9	13.0
3361	Aluminum foundries -----	-	12	9	0.8	10.7	0.7	1.3	8.6	20.8	15.4	36.0	(D)	(NA)	(NA)
339	Miscellaneous primary metal products -----	E1	14	6	0.5	4.3	0.4	0.8	2.8	8.7	4.0	12.9	1.4	0.4	5.6
34	Fabricated metal products ---	-	250	120	14.1	183.9	10.9	21.5	124.1	376.3	391.2	767.4	23.4	14.4	230.0
341	Metal cans and shipping containers -----	-	5	5	1.4	21.6	1.1	2.4	16.2	51.6	76.8	127.6	2.9	1.2	26.4
342	Cutlery, hand tools, and hardware -----	-	14	8	1.0	12.4	0.9	1.6	10.4	17.2	30.5	46.9	1.4	(NA)	(NA)
344	Fabricated structural metal products -----	-	76	43	4.7	62.3	3.5	7.0	40.0	126.1	125.6	251.2	7.1	5.2	79.8
3441	Fabricated structural metal -----	-	17	6	0.5	6.5	0.3	0.7	3.5	16.6	13.3	30.1	1.2	0.5	9.7
3443	Fabricated plate work (boiler shops) -----	-	15	11	1.6	20.7	1.2	2.3	13.5	41.8	33.6	75.2	1.8	0.8	12.2
3444	Sheet metal work -----	-	22	15	1.2	16.0	0.9	1.7	9.9	28.0	33.2	61.6	1.4	1.8	27.7
3446	Architectural metal work -----	-	8	4	0.3	3.2	0.2	0.5	2.4	6.1	6.7	12.7	(D)	(NA)	(NA)
345	Screw machine products, bolts, etc. -----	-	16	12	0.5	6.5	0.4	0.7	4.4	15.3	12.7	27.9	0.6	0.4	7.9
3452	Bolts, nuts, rivets, and washers -----	-	7	5	0.3	4.0	0.2	0.4	2.6	10.8	10.0	20.7	0.4	(NA)	(NA)
346	Metal forgings and stampings -----	-	28	16	1.6	18.0	1.2	2.2	11.6	33.9	31.6	65.3	2.4	1.7	23.8
3469	Metal stampings, n.e.c. -----	-	24	13	1.5	16.5	1.1	2.0	10.8	31.5	29.8	61.1	(D)	1.6	22.1
347	Metal services, n.e.c. -----	-	43	11	0.9	9.5	0.7	1.4	6.6	16.7	12.8	29.6	1.6	0.9	10.6
3471	Plating and polishing -----	E1	30	9	0.7	7.1	0.6	1.1	5.1	11.9	9.0	21.0	1.4	0.6	7.2
349	Miscellaneous fabricated metal products -----	-	60	23	4.0	51.9	3.0	5.8	33.8	112.6	98.5	213.4	7.3	4.4	76.3
3494	Valves and pipe fittings -----	-	12	8	2.8	40.4	2.2	4.1	26.7	90.5	78.5	171.6	6.8	3.0	61.9
3499	Fabricated metal products, n.e.c. -----	-	32	9	0.7	8.0	0.5	0.9	4.3	15.5	13.4	28.8	0.4	0.9	8.8
35	Machinery, except electrical	-	367	121	23.4	328.8	14.4	28.3	179.5	624.7	459.5	1 084.0	27.6	17.3	314.2
353	Construction and related machinery -----	-	22	8	1.2	16.4	0.7	1.5	8.5	32.5	31.6	62.2	1.3	1.2	23.1

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Cincinnati, Ohio-Ky.-Ind., SMSA—Con.														
35	Machinery, except electrical—Con.														
353	Construction and related machinery—Con.														
3535	Conveyors and conveying equipment	—	8	3	0.7	9.3	0.3	0.6	3.5	16.8	17.2	32.4	0.5	0.8	14.3
354	Metalworking machinery	—	101	35	10.5	163.1	5.7	11.5	83.0	273.0	147.3	427.1	12.9	9.4	144.8
3545	Machine tool accessories	E2	10	6	0.7	10.8	0.6	1.1	6.9	19.5	9.0	28.5	0.2	0.6	9.6
3549	Metalworking machinery, n.e.c.	—	7	4	0.5	7.8	0.3	0.8	4.8	14.3	12.0	25.0	0.6	(NA)	(NA)
355	Special industry machinery	—	43	19	2.4	35.1	1.5	3.0	19.6	76.2	79.5	153.5	2.4	2.0	62.5
356	General industrial machinery	—	47	22	4.7	55.2	3.4	5.8	33.1	127.7	115.5	243.6	7.7	1.6	30.9
3564	Blowers and fans	—	12	4	0.3	3.4	0.2	0.4	2.1	6.7	6.3	12.9	(D)	(NA)	(NA)
3569	General industrial machinery, n.e.c.	—	13	8	0.8	10.8	0.5	1.0	5.3	22.6	18.5	40.6	1.6	0.5	11.5
358	Refrigeration and service machinery	—	18	10	2.2	27.4	1.4	2.8	15.7	55.3	56.1	109.4	0.4	0.9	17.0
3589	Service industry machinery, n.e.c.	—	7	3	0.4	4.6	0.2	0.3	1.8	10.8	9.8	20.5	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical	E1	126	20	1.7	21.7	1.4	2.6	14.5	41.5	21.2	62.2	2.5	1.6	24.9
36	Electric and electronic equipment	—	82	48	9.8	129.3	5.8	11.7	61.2	280.2	189.7	466.3	11.6	9.7	173.5
361	Electric distributing equipment	E1	9	8	1.0	11.6	0.7	1.4	7.0	24.5	20.1	44.6	0.4	(NA)	(NA)
362	Electrical industrial apparatus	—	10	5	2.2	33.9	1.2	2.7	15.7	61.5	37.1	98.2	(D)	2.5	43.0
364	Electric lighting and wiring equipment	—	17	13	1.8	19.4	1.2	2.3	10.9	40.6	38.5	77.8	1.2	1.5	28.4
3643	Current-carrying wiring devices	—	9	8	1.0	10.9	0.7	1.4	6.5	21.0	17.2	36.3	0.6	0.6	7.9
366	Communication equipment	—	12	6	1.4	16.9	0.6	1.3	5.5	26.0	22.1	47.3	0.3	1.6	17.3
3662	Radio and TV communication equipment	—	12	6	1.4	16.9	0.6	1.3	5.5	26.0	22.1	47.3	0.3	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies	—	8	3	0.6	7.1	0.4	0.8	4.4	12.1	8.9	22.3	(D)	(NA)	(NA)
37	Transportation equipment	—	37	15	21.3	492.7	13.1	30.8	277.8	1 049.0	1 485.5	2 535.4	68.7	21.0	574.4
38	Instruments and related products	E1	49	20	1.8	21.2	1.2	2.3	11.5	40.5	36.6	76.1	1.8	1.8	29.6
382	Measuring and controlling devices	—	20	11	0.6	7.5	0.4	0.7	3.4	13.4	8.0	21.2	0.5	0.5	10.2
3829	Measuring and controlling devices, n.e.c.	—	10	7	0.4	4.0	0.2	0.4	1.7	7.4	4.1	11.4	0.2	(NA)	(NA)
384	Medical instruments and supplies	E1	16	4	0.8	8.7	0.6	1.0	5.0	21.7	22.1	43.3	1.1	1.0	14.8
39	Miscellaneous manufacturing industries	—	102	31	4.5	46.1	3.1	6.4	26.8	152.3	115.0	260.7	10.6	5.3	84.7
3993	Signs and advertising displays	E2	30	12	0.9	9.5	0.7	1.3	5.9	18.5	12.4	30.8	1.0	1.1	16.0
	Cleveland SMSA	—	4 475	1 654	265.4	4 262.8	175.9	357.3	2 524.1	8 105.9	8 600.4	16 599.6	543.1	268.9	5 220.9
20	Food and kindred products	—	169	67	8.5	108.8	5.1	10.2	60.2	208.5	531.9	741.6	15.5	8.9	210.7
201	Meat products	—	32	11	0.7	11.8	0.6	1.3	9.3	20.0	116.5	136.3	0.8	0.8	14.4
2011	Meat packing plants	—	14	6	0.4	6.8	0.3	0.8	5.6	12.4	96.6	108.7	0.4	0.4	7.4
2013	Sausages and other prepared meats	—	18	5	0.3	5.0	0.3	0.5	3.8	7.6	19.9	27.7	0.4	(NA)	(NA)
202	Dairy products	—	19	10	0.8	11.6	0.3	0.7	3.6	39.6	71.1	111.2	2.1	1.6	38.4
2026	Fluid milk	—	12	7	0.7	9.9	0.2	0.4	2.4	35.0	47.4	82.5	(D)	1.5	36.2
203	Preserved fruits and vegetables	—	12	7	1.6	17.1	1.0	2.1	11.2	—22.0	83.8	64.2	(D)	1.0	35.6
2035	Pickles, sauces, and salad dressings	—	5	3	0.3	3.6	0.2	0.5	2.3	6.1	11.8	20.3	0.2	(NA)	(NA)
2086	Bottled and canned soft drinks	E3	18	6	1.2	16.2	0.5	1.0	5.7	38.6	36.7	74.5	(D)	0.6	11.6
209	Miscellaneous foods and kindred products	E1	27	11	0.9	10.1	0.6	1.3	6.4	22.1	91.5	113.7	1.4	1.0	17.4
2099	Food preparations, n.e.c.	—	16	5	0.4	3.6	0.3	0.4	2.3	13.5	18.7	32.1	0.3	0.5	9.2
22	Textile mill products	E1	24	9	2.3	25.5	1.7	3.2	12.3	53.6	28.2	83.9	(D)	3.1	35.8
23	Apparel and other textile products	—	97	37	7.8	83.6	6.3	11.0	62.0	239.0	210.1	446.2	2.9	9.2	166.8
233	Women's and misses' outerwear	—	24	16	2.3	21.4	1.7	2.9	13.3	36.0	57.2	95.8	0.5	2.9	41.8

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employ-ees (1,000)	Value added by manu-facture (million dollars)
			Total (no.)	With 20 employ-ees or more (no.)	Num-ber (1,000)	Payroll (million dollars)	Num-bar (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
	Cleveland SMSA—Con.														
24	Lumber and wood products --	E1	89	15	1.0	11.8	0.7	1.4	7.8	23.6	28.9	52.4	0.9	0.8	12.1
243	Millwork, plywood, and structural members -----	E1	44	9	0.5	7.1	0.4	0.8	4.8	12.7	17.2	29.7	0.4	0.4	6.4
25	Furniture and fixtures -----	-	76	23	2.4	27.6	1.9	3.6	20.0	53.3	53.7	105.7	2.4	3.3	56.4
251	Household furniture -----	E1	30	10	0.9	9.1	0.7	1.5	6.3	19.1	25.6	44.7	0.3	1.3	19.9
2514	Metal household furniture -----	-	6	3	0.5	4.9	0.4	0.8	3.6	9.3	15.5	24.9	0.1	(NA)	(NA)
2515	Mattresses and bedsprings -----	E1	8	5	0.3	3.0	0.2	0.4	1.7	7.8	8.4	16.2	0.1	0.3	5.5
254	Partitions and fixtures -----	-	28	8	1.2	14.7	0.9	1.7	11.1	27.6	22.7	49.2	1.8	1.2	25.4
2542	Metal partitions and fixtures -----	-	9	7	1.0	12.1	0.8	1.5	9.3	23.4	19.9	42.2	(D)	1.0	21.7
26	Paper and allied products ---	-	82	51	5.0	64.2	3.6	7.1	40.7	142.5	182.7	324.1	11.3	4.7	81.9
2642	Envelopes -----	-	4	3	0.5	6.4	0.4	0.8	4.1	9.5	9.7	19.1	(D)	(NA)	(NA)
2649	Converted paper products, n.e.c. -----	-	11	5	0.4	3.8	0.3	0.5	2.3	10.5	15.2	25.5	1.0	(NA)	(NA)
265	Paperboard containers and boxes -----	-	44	32	2.8	34.5	2.1	4.1	23.0	69.0	105.0	174.5	3.6	3.1	48.3
2651	Folding paperboard boxes -----	-	11	8	0.7	8.5	0.5	0.9	5.7	17.7	18.7	36.8	0.5	0.6	10.8
2653	Corrugated and solid fiber boxes -----	-	24	17	1.6	19.6	1.2	2.3	12.5	38.0	55.5	93.5	2.5	1.8	28.8
27	Printing and publishing -----	-	527	105	12.9	190.2	7.4	14.0	94.6	365.0	214.5	575.0	16.0	14.5	333.2
2711	Newspapers -----	-	36	13	4.1	60.7	1.5	2.8	23.3	121.3	49.9	171.1	3.4	4.5	88.3
2721	Periodicals -----	-	19	8	1.1	16.8	0.1	0.2	0.9	57.9	21.7	78.1	1.3	1.3	33.9
273	Books -----	-	22	3	0.3	3.8	(Z)	0.3	0.5	13.6	11.8	25.0	0.1	0.4	14.3
2741	Miscellaneous publishing -----	E1	20	5	0.3	2.5	0.1	0.2	0.9	5.0	1.9	6.9	0.1	(NA)	(NA)
2751	Commercial printing, letterpress -----	E2	177	19	1.7	21.1	1.4	2.8	14.0	39.4	30.2	69.6	1.9	1.9	33.7
2754	Commercial printing, gravure -----	-	9	2	0.4	7.6	0.4	0.7	5.8	13.8	12.2	26.0	(D)	0.8	13.1
2761	Manifold business forms -----	E1	12	3	0.3	3.9	0.2	0.4	2.7	7.3	7.2	14.4	0.3	(NA)	(NA)
278	Blankbooks and bookbinding -----	-	17	7	0.6	6.8	0.5	1.0	5.3	13.0	4.3	17.3	0.3	0.7	8.6
279	Printing trade services -----	E1	60	11	0.7	10.5	0.5	0.9	7.1	17.1	5.5	22.5	0.7	0.6	10.3
2791	Typesetting -----	E1	35	3	0.3	4.3	0.3	0.5	3.2	7.7	0.9	8.5	(D)	0.3	4.7
2795	Lithographic platemaking services --	-	19	6	0.3	5.2	0.2	0.4	3.2	7.8	4.1	11.8	0.4	(NA)	(NA)
28	Chemicals and allied products -----	-	214	78	9.6	146.0	5.8	11.8	76.4	512.1	665.2	1 173.7	53.9	14.2	370.7
281	Industrial inorganic chemicals -----	-	25	7	1.8	27.8	1.0	2.1	14.8	63.1	108.7	171.4	8.2	2.3	53.4
2819	Industrial inorganic chemicals, n.e.c. -----	-	10	5	0.9	14.8	0.6	1.2	8.9	48.4	75.2	122.8	4.3	0.9	20.5
282	Plastics materials and synthetics -----	-	8	5	1.0	14.7	0.8	1.6	10.3	49.8	70.2	121.5	(D)	2.2	46.6
284	Soaps, cleaners, and toilet goods -----	-	40	8	0.6	8.8	0.4	0.7	3.7	53.2	56.1	107.4	(D)	0.8	36.8
2842	Polishes and sanitation goods -----	-	19	5	0.3	3.5	0.1	0.3	1.5	23.7	38.8	62.2	0.5	(NA)	(NA)
2851	Paints and allied products -----	-	41	20	2.4	35.7	1.4	2.9	17.8	116.4	146.9	263.0	3.1	3.1	89.1
286	Industrial organic chemicals -----	-	12	9	1.2	20.3	0.7	1.5	11.7	94.0	118.4	210.5	6.0	2.0	45.9
289	Miscellaneous chemical products -----	-	77	26	2.4	36.1	1.4	2.7	16.2	130.0	162.5	292.1	11.4	3.4	85.4
2891	Adhesives and sealants -----	-	14	7	0.7	8.6	0.4	0.7	4.5	29.2	43.8	72.3	1.0	1.0	25.7
2899	Chemical preparations, n.e.c. -----	-	52	13	1.5	23.1	0.8	1.7	10.1	82.5	104.0	196.7	8.8	2.1	51.4
29	Petroleum and coal products -----	-	41	23	1.8	28.3	0.7	1.5	8.8	62.8	117.8	180.4	(D)	1.1	26.5
295	Paving and roofing materials -----	-	23	12	1.2	19.3	0.5	0.9	5.0	42.4	51.6	93.1	(D)	0.5	11.5
30	Rubber and miscellaneous plastics products -----	-	167	79	8.6	104.6	7.5	14.5	58.8	202.1	216.9	415.6	11.2	8.9	155.4
3079	Miscellaneous plastics products -----	E1	127	57	4.9	50.7	3.9	7.5	33.0	116.4	117.9	231.6	7.6	4.3	91.7

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Cleveland SMSA—Con.														
32	Stone, clay, and glass products -----	-	149	53	4.6	61.7	3.6	6.9	42.9	143.1	123.1	264.2	10.6	4.1	82.9
3272	Concrete products, n.e.c. -----	E1	20	5	0.4	5.7	0.3	0.7	4.5	13.9	9.1	22.3	0.3	0.5	9.9
3273	Ready-mixed concrete -----	E1	29	12	0.8	11.9	0.6	1.2	8.5	26.9	41.9	68.7	2.1	0.6	16.7
3293	Gaskets, packing, and sealing devices -----	-	11	6	0.4	3.5	0.3	0.6	2.5	6.5	6.1	12.4	0.5	(NA)	(NA)
3299	Nonmetallic mineral products, n.e.c. -----	-	10	5	0.5	5.2	0.4	0.6	3.9	11.2	7.0	18.5	(D)	(NA)	(NA)
33	Primary metal industries -----	-	188	106	29.2	554.1	23.7	48.5	429.6	1 302.6	1 484.9	2 778.3	73.6	29.6	661.4
331	Blast furnace and basic steel products -----	-	26	18	14.1	281.9	11.4	22.3	220.3	735.3	806.0	1 531.9	36.3	14.3	387.8
332	Iron and steel foundries -----	-	19	13	7.1	154.1	6.1	13.7	128.3	327.4	207.0	534.2	25.8	5.8	129.1
3341	Secondary nonferrous metals -----	-	18	13	1.2	18.0	0.9	1.9	12.6	43.5	189.6	232.6	(D)	1.2	20.6
335	Nonferrous rolling and drawing -----	-	13	9	2.1	35.1	1.6	3.5	24.1	63.7	160.5	224.9	2.8	2.8	28.0
3351	Copper rolling and drawing -----	-	4	4	1.2	19.6	0.9	1.9	15.2	16.9	100.6	118.7	(D)	1.2	4.2
336	Nonferrous foundries -----	-	56	33	3.5	50.5	2.8	5.4	34.7	102.3	104.2	207.5	3.7	4.6	78.6
3361	Aluminum foundries -----	-	35	22	2.7	39.0	2.1	4.0	26.8	72.8	79.2	153.6	3.0	3.7	64.4
3398	Metal heat treating -----	E1	46	15	0.8	10.2	0.7	1.3	6.8	20.7	8.1	28.8	0.9	0.8	13.2
34	Fabricated metal products -----	-	774	347	44.7	680.2	34.5	71.4	487.8	1 384.6	1 400.9	2 753.0	74.4	41.5	825.2
341	Metal cans and shipping containers -----	-	13	7	1.0	14.0	0.8	1.6	9.8	35.6	49.6	87.3	(D)	1.0	21.7
3412	Metal barrels, drums, and pails -----	-	10	5	0.5	6.8	0.3	0.7	4.2	11.5	21.3	34.6	0.7	0.5	9.9
342	Cutlery, hand tools, and hardware -----	-	44	25	1.6	18.0	1.2	2.4	12.3	39.8	38.4	77.6	(D)	2.2	54.7
343	Plumbing and heating, except electric -----	-	28	11	1.4	20.2	0.9	1.9	11.4	41.8	37.6	79.0	1.7	1.7	34.9
344	Fabricated structural metal products -----	-	131	56	5.6	68.4	3.9	7.6	43.2	152.7	199.7	351.5	6.3	5.5	96.8
3441	Fabricated structural metal -----	-	25	16	1.0	12.2	0.7	1.3	8.1	20.1	26.8	46.7	0.6	1.0	16.9
3443	Fabricated plate work (boiler shops) -----	E1	25	8	0.8	11.8	0.6	1.2	8.0	19.4	19.7	39.0	1.3	0.8	13.1
3444	Sheet metal work -----	-	40	17	2.2	22.8	1.4	2.9	15.4	61.0	88.4	148.6	3.9	1.4	23.7
3446	Architectural metal work -----	-	20	7	0.9	11.5	0.6	1.2	6.8	22.2	36.5	59.3	0.2	(NA)	(NA)
3449	Miscellaneous metal work -----	-	8	2	0.4	6.7	0.3	0.5	2.9	22.0	17.9	39.5	(D)	0.7	9.9
345	Screw machine products, bolts, etc. -----	-	118	68	6.7	94.1	5.2	10.6	65.4	191.6	169.1	367.1	12.0	7.3	145.5
3451	Screw machine products -----	-	76	40	2.4	29.6	2.0	4.2	21.2	68.4	51.7	117.9	3.5	2.1	31.5
3452	Bolts, nuts, rivets, and washers -----	-	42	28	4.3	64.5	3.2	6.5	44.2	123.2	117.4	249.2	8.5	5.1	114.1
346	Metal forgings and stampings -----	-	146	81	17.8	331.2	14.7	31.8	258.7	633.4	648.6	1 259.4	38.3	15.8	338.2
3465	Automotive stampings -----	-	23	19	10.4	224.2	8.7	20.1	183.5	383.4	408.3	783.4	27.2	9.4	230.8
3469	Metal stampings, n.e.c. -----	-	98	46	3.8	45.7	3.0	6.2	31.8	88.5	80.4	166.9	3.5	2.8	44.3
3471	Plating and polishing -----	E1	109	29	1.6	16.6	1.3	2.5	11.5	33.7	13.5	47.0	1.7	1.6	24.0
349	Miscellaneous fabricated metal products -----	-	144	57	6.7	87.2	4.9	9.6	54.3	208.2	215.3	403.3	8.2	6.1	103.3
3494	Valves and pipe fittings -----	-	30	17	2.8	38.4	1.9	4.0	23.5	107.2	106.4	196.6	4.8	1.6	34.2
3496	Miscellaneous fabricated wire products -----	-	26	10	0.9	11.3	0.7	1.4	7.0	17.9	14.3	32.2	0.6	1.3	20.4
3498	Fabricated pipe and fittings -----	-	13	5	0.5	6.0	0.4	0.8	4.1	20.8	17.0	35.5	0.7	0.3	5.9
3499	Fabricated metal products, n.e.c. -----	-	60	18	1.4	17.9	1.1	2.0	11.6	40.8	34.5	74.5	1.5	1.6	21.0
35	Machinery, except electrical -----	-	1 140	326	44.0	679.9	31.2	63.3	435.4	1 397.4	945.4	2 331.1	61.2	42.1	860.0
352	Farm and garden machinery -----	-	6	4	0.4	4.1	0.4	0.9	2.4	10.1	8.8	18.7	(D)	(NA)	(NA)
353	Construction and related machinery -----	-	64	40	10.4	175.1	6.9	14.1	106.6	397.5	382.7	774.2	12.3	8.7	172.0
3531	Construction machinery -----	-	15	9	3.1	60.1	2.1	4.4	38.7	183.3	186.1	357.2	3.2	3.1	82.4
3532	Mining machinery -----	-	6	4	0.8	10.7	0.5	1.0	5.7	21.5	23.6	45.3	0.9	(NA)	(NA)
3536	Hoists, cranes, and monorails -----	-	9	7	1.2	16.9	0.7	1.4	8.6	25.1	35.5	63.8	1.7	0.7	10.0

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Cleveland SMSA—Con.														
35	Machinery, except electrical—Con.														
353	Construction and related machinery—Con.														
3537	Industrial trucks and tractors -----	-	20	10	4.6	76.0	3.1	6.0	48.0	130.8	121.4	256.0	4.4	4.0	64.3
354	Metalworking machinery-----	-	378	112	14.3	219.8	10.2	21.1	141.2	436.6	199.9	637.6	16.3	13.4	250.8
3541	Machine tools, metal cutting types -----	-	36	17	4.6	70.3	2.9	5.8	42.5	139.9	76.5	219.6	(D)	4.3	70.3
3542	Machine tools, metal forming types -----	-	18	10	1.2	18.8	0.8	1.6	10.7	37.3	25.9	65.0	0.9	1.4	24.2
3544	Special dies, tools, jigs, and fixtures -----	E1	238	48	3.3	49.9	2.6	5.7	36.0	84.6	37.5	119.8	5.1	3.0	58.9
3545	Machine tool accessories -----	-	65	27	4.1	63.0	3.2	6.5	42.1	130.7	45.2	175.0	5.0	3.8	74.5
3546	Power driven hand tools -----	-	6	5	0.6	9.4	0.4	0.8	5.3	24.9	6.8	31.3	1.6	0.6	13.3
3549	Metalworking machinery, n.e.c.-----	-	12	3	0.4	6.9	0.3	0.6	3.8	15.7	5.1	20.5	(D)	(NA)	(NA)
355	Special industry machinery-----	-	71	38	4.9	76.4	3.2	6.5	46.7	145.6	114.4	252.6	8.8	4.8	105.2
3551	Food products machinery-----	-	8	5	0.6	7.7	0.3	0.6	3.7	14.8	9.8	24.4	0.4	(NA)	(NA)
3559	Special industry machinery, n.e.c.-----	-	46	27	3.7	58.0	2.6	5.2	38.0	105.1	89.0	189.5	5.9	3.1	64.5
356	General industrial machinery-----	-	115	38	3.8	55.9	2.6	5.2	33.9	118.6	75.4	194.9	8.3	4.3	79.6
3564	Blowers and fans -----	-	12	7	0.5	5.9	0.3	0.6	3.2	11.0	10.4	21.3	0.5	0.5	7.4
3565	Industrial patterns -----	E1	30	4	0.3	5.2	0.3	0.5	4.1	8.1	2.1	10.3	0.4	0.3	6.2
3566	Speed changers, drives, and gears -----	-	12	8	1.2	18.4	0.8	1.7	11.7	42.5	23.8	66.6	(D)	1.1	21.4
3567	Industrial furnaces and ovens -----	-	13	5	0.4	5.1	0.2	0.5	2.5	11.2	5.7	17.5	0.3	0.7	14.1
3568	Power transmission equipment, n.e.c.-----	-	8	5	0.5	7.7	0.3	0.6	4.2	22.0	11.0	33.2	(D)	0.5	14.1
3569	General industrial machinery, n.e.c.-----	-	30	8	0.8	11.6	0.5	1.1	6.7	19.4	18.6	38.2	1.4	1.0	14.8
358	Refrigeration and service machinery-----	-	28	14	1.0	11.9	0.7	1.4	7.0	28.5	25.3	52.5	0.7	2.1	31.1
3585	Refrigeration and heating equipment -----	-	11	8	0.6	7.0	0.4	0.8	4.0	17.0	15.8	32.1	0.3	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	-	465	74	7.8	120.0	6.1	12.5	85.8	231.1	125.5	353.5	15.2	8.8	138.1
36	Electric and electronic equipment -----	-	203	113	21.7	315.9	14.7	28.7	184.5	786.5	666.8	1 433.7	48.7	20.6	420.3
361	Electric distributing equipment -----	E1	18	8	0.7	7.6	0.5	1.0	4.6	13.1	14.6	27.0	(D)	1.1	19.8
362	Electrical industrial apparatus -----	-	49	30	7.3	143.7	4.7	9.9	84.4	340.0	262.8	596.2	31.1	6.2	145.2
3621	Motors and generators -----	-	8	6	1.5	24.9	1.2	2.9	18.3	48.1	26.9	75.2	(D)	1.7	32.1
3622	Industrial controls -----	-	16	8	1.9	29.3	0.9	1.8	11.9	73.2	39.0	111.1	3.7	1.7	28.1
3629	Electrical industrial apparatus, n.e.c.-----	-	9	5	0.8	13.3	0.3	0.6	4.1	53.8	25.5	77.7	(D)	(NA)	(NA)
363	Household appliances -----	-	14	9	2.1	24.4	1.6	3.1	15.4	86.0	85.2	179.3	2.0	1.5	51.5
364	Electric lighting and wiring equipment -----	-	47	33	4.7	55.0	3.7	6.9	37.6	127.8	93.4	218.0	4.9	5.5	90.0
3643	Current-carrying wiring devices -----	-	7	5	0.6	7.6	0.4	0.9	4.7	20.2	10.6	29.1	(D)	0.8	16.6
3644	Noncurrent-carrying wiring devices -----	-	9	8	0.6	7.5	0.4	0.7	3.7	14.4	8.0	23.2	0.3	(NA)	(NA)
3648	Lighting equipment, n.e.c.-----	-	6	4	0.4	5.6	0.4	0.7	3.9	9.9	9.3	19.6	0.1	(NA)	(NA)
366	Communication equipment -----	-	17	8	1.5	13.2	1.0	1.8	8.1	27.2	54.5	76.4	(D)	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies -----	-	18	11	4.2	58.8	2.4	4.5	26.5	152.1	114.5	263.5	6.2	3.3	70.6
37	Transportation equipment -----	-	103	41	26.4	560.6	20.7	47.2	428.3	979.8	1 574.8	2 538.5	149.3	31.7	764.3
371	Motor vehicles and equipment -----	-	58	23	20.8	462.7	17.1	39.9	370.1	788.2	1 480.7	2 274.2	(D)	23.1	593.4
372	Aircraft and parts -----	-	22	13	5.1	92.6	3.3	6.7	54.6	179.3	81.0	239.0	(D)	6.6	119.1
38	Instruments and related products -----	-	107	39	6.6	84.4	3.7	7.0	36.5	164.6	85.6	247.9	(D)	6.1	95.7
382	Measuring and controlling devices -----	-	42	19	5.3	69.9	2.7	5.2	28.0	135.3	62.3	196.1	(D)	5.1	79.9
3825	Instruments to measure electricity -----	-	21	10	1.9	23.4	1.1	2.1	10.1	47.8	27.6	73.4	1.9	1.4	28.6
39	Miscellaneous manufacturing industries -----	-	158	44	4.1	43.1	3.1	5.8	27.2	83.5	68.1	152.2	2.6	3.9	60.8
3931	Musical instruments -----	-	9	3	0.6	6.4	0.5	1.0	4.5	12.1	8.6	20.7	(D)	(NA)	(NA)
394	Toys and sporting goods -----	E1	22	3	0.4	3.4	0.3	0.6	2.3	8.5	5.4	13.8	0.4	0.3	4.3

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Cleveland SMSA—Con.														
39	Miscellaneous manufacturing industries—Con.														
395	Pens, pencils, office and art supplies -----	-	16	3	0.3	3.4	0.2	0.4	1.9	5.8	7.2	13.0	(D)	0.5	8.0
399	Miscellaneous manufactures -----	-	92	33	2.6	28.5	2.0	3.6	17.6	54.2	44.2	88.4	1.8	2.6	40.4
3991	Brooms and brushes -----	-	17	11	1.0	12.2	0.8	1.4	7.4	25.2	20.5	45.2	(D)	(NA)	(NA)
3999	Manufacturing industries, n.e.c. -----	E1	40	6	0.8	7.4	0.6	1.1	4.7	11.6	13.7	26.8	0.3	(NA)	(NA)
	Columbus SMSA -----	-	1 315	500	96.2	1 384.3	63.1	122.8	814.7	2 989.4	2 630.7	5 772.3	165.4	102.4	1 989.2
20	Food and kindred products --	-	106	58	8.0	110.0	5.4	11.1	70.5	494.2	719.5	1 210.2	19.1	8.6	251.7
201	Meat products -----	-	23	9	0.9	9.0	0.7	1.3	6.2	8.8	86.3	85.2	0.8	0.8	9.9
2011	Meat packing plants -----	-	14	6	0.6	6.8	0.5	1.1	5.1	3.4	71.0	74.4	0.5	0.6	7.5
202	Dairy products -----	-	12	7	1.3	17.6	0.7	1.5	10.3	87.5	115.1	201.5	3.0	1.5	47.7
2026	Fluid milk -----	-	5	3	0.5	6.6	0.2	0.3	2.0	18.3	42.6	60.8	(D)	0.7	12.7
204	Grain mill products -----	-	11	8	1.0	15.0	0.8	1.6	11.0	85.2	98.5	162.5	2.2	0.4	10.7
205	Bakery products -----	-	16	11	1.5	19.3	1.2	2.4	14.8	47.1	45.8	92.9	1.4	1.7	25.3
209	Miscellaneous foods and kindred products -----	-	18	6	0.5	5.2	0.4	0.9	3.5	63.6	69.5	131.2	0.3	0.7	32.3
22	Textile mill products -----	-	6	4	1.0	12.9	0.7	1.4	8.8	25.5	36.6	60.8	(D)	(NA)	(NA)
23	Apparel and other textile products -----	E3	37	6	0.5	3.0	0.4	0.6	1.9	5.6	5.3	11.0	0.2	0.9	13.1
239	Miscellaneous fabricated textile products -----	E2	27	4	0.3	1.9	0.2	0.4	1.1	3.4	3.2	6.8	0.1	0.8	12.5
24	Lumber and wood products --	E1	37	8	0.7	6.4	0.6	1.0	4.2	13.2	15.3	28.1	0.8	1.3	19.5
243	Millwork, plywood, and structural members -----	-	15	6	0.5	4.5	0.4	0.6	2.8	9.3	11.2	20.1	0.3	(NA)	(NA)
25	Furniture and fixtures -----	-	24	9	1.2	14.9	1.0	1.8	10.2	23.2	22.3	45.2	0.4	1.3	20.6
251	Household furniture -----	E1	9	3	0.5	5.4	0.4	0.8	4.2	6.8	11.4	18.4	(Z)	0.6	9.3
26	Paper and allied products --	-	31	17	1.6	21.7	1.1	2.3	15.0	47.1	67.9	114.8	4.9	2.2	35.8
2631	Paperboard mills -----	-	3	3	0.4	5.1	0.3	0.6	3.9	17.8	17.7	35.4	(D)	0.4	9.5
265	Paperboard containers and boxes -----	-	12	9	0.9	12.3	0.6	1.1	8.1	20.4	36.3	57.0	1.6	1.2	18.0
2653	Corrugated and solid fiber boxes -----	-	8	6	0.7	11.1	0.5	0.9	7.2	17.9	33.0	51.0	1.5	1.1	16.1
27	Printing and publishing -----	-	228	52	6.7	84.9	3.5	6.8	45.9	228.9	105.3	334.2	6.8	6.5	126.8
2711	Newspapers -----	-	32	8	1.9	26.4	1.0	1.7	16.2	55.6	23.0	78.6	1.3	2.0	37.0
2721	Periodicals -----	-	17	5	0.5	4.5	(Z)	0.1	0.4	26.9	19.6	46.7	(D)	(NA)	(NA)
275	Commercial printing -----	E1	147	27	2.3	28.2	1.7	3.2	19.3	47.6	31.9	79.6	2.9	2.0	29.3
2751	Commercial printing, letterpress -----	E2	70	7	0.6	6.2	0.5	0.9	4.3	11.3	8.0	19.2	(D)	(NA)	(NA)
2752	Commercial printing, lithographic -----	-	74	19	1.6	21.4	1.2	2.2	14.6	34.6	23.2	58.0	2.2	1.6	24.0
28	Chemicals and allied products -----	-	69	27	3.2	46.3	1.5	3.1	17.7	140.1	226.6	363.3	5.8	2.9	76.5
281	Industrial inorganic chemicals -----	-	10	3	0.3	4.9	0.2	0.5	3.0	9.0	16.5	25.9	1.0	0.4	7.1
282	Plastics materials and synthetics -----	-	6	4	0.4	6.3	0.2	0.5	3.4	19.9	58.1	77.6	(D)	(NA)	(NA)
2851	Paints and allied products -----	-	7	5	1.1	18.0	0.5	1.0	6.3	62.4	93.8	153.7	1.2	1.0	32.6
289	Miscellaneous chemical products -----	E1	17	6	0.4	5.5	0.2	0.5	2.1	17.7	24.4	41.8	1.0	0.3	10.2
2891	Adhesives and sealants -----	-	8	5	0.4	5.1	0.2	0.4	1.9	16.2	22.8	38.7	0.8	0.3	9.6
30	Rubber and miscellaneous plastics products -----	-	49	23	3.5	51.4	2.7	5.4	33.8	144.4	131.0	270.2	15.3	4.0	90.2
32	Stone, clay, and glass products -----	-	88	37	10.2	134.9	8.0	15.4	94.8	323.2	185.6	505.6	24.9	10.6	224.8
3272	Concrete products, n.e.c. -----	-	16	6	0.4	4.6	0.3	0.5	2.5	8.2	8.9	15.2	0.4	0.5	8.7
3273	Ready-mixed concrete -----	E2	16	3	0.3	4.8	0.2	0.4	2.4	10.0	15.5	25.5	1.1	0.4	11.2

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972		
			E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Columbus SMSA—Con.															
33	Primary metal industries ----	-	33	18	4.0	54.3	3.2	5.9	42.5	85.1	116.8	203.8	8.3	3.8	51.4	
332	Iron and steel foundries ---	-	12	11	3.3	46.4	2.8	5.0	37.2	60.5	40.6	103.0	5.0	3.1	39.2	
344	Fabricated structural metal products -----	-	47	17	3.5	43.8	2.3	4.6	28.0	95.6	120.7	215.2	3.7	2.3	33.7	
3441	Fabricated structural metal -----	-	10	4	0.5	6.1	0.3	0.7	3.9	10.7	10.3	20.7	0.6	0.4	6.6	
3443	Fabricated plate work (boiler shops) -----	-	12	7	1.6	19.1	1.0	2.1	11.3	55.9	48.7	103.9	1.6	0.5	10.5	
3444	Sheet metal work -----	-	14	4	1.0	13.3	0.8	1.5	10.5	19.1	56.0	75.0	1.2	(NA)	(NA)	
345	Screw machine products, bolts, etc. -----	-	9	3	0.3	3.4	0.3	0.5	2.8	7.8	5.6	13.2	0.1	0.9	15.3	
3469	Metal stampings, n.e.c. ---	E1	12	7	0.4	5.0	0.3	0.6	2.9	9.9	6.3	16.1	0.8	(NA)	(NA)	
347	Metal services, n.e.c. ----	-	17	10	0.9	10.3	0.7	1.4	7.0	21.6	11.9	33.4	0.3	(NA)	(NA)	
3471	Plating and polishing ---	-	12	6	0.5	5.9	0.4	0.8	4.1	12.3	2.9	15.2	0.3	(NA)	(NA)	
3479	Metal coating and allied services -----	-	5	4	0.4	4.3	0.3	0.6	2.9	9.3	9.1	18.2	0.1	(NA)	(NA)	
349	Miscellaneous fabricated metal products -----	-	26	7	0.8	9.9	0.6	1.2	6.3	23.4	19.3	43.0	0.5	1.1	16.1	
35	Machinery, except electrical -	-	202	69	11.8	158.2	8.3	15.9	105.2	282.5	364.2	639.7	15.7	11.4	227.1	
352	Farm and garden machinery -----	-	8	6	0.4	4.6	0.3	0.5	2.5	12.6	10.7	23.2	0.3	0.3	6.3	
353	Construction and related machinery -----	-	16	8	2.2	23.7	1.3	2.4	15.3	62.7	44.8	105.8	(D)	1.9	35.1	
354	Metalworking machinery ---	E1	28	9	1.0	14.5	0.7	1.4	9.4	24.0	10.2	32.8	0.9	1.1	16.6	
3544	Special dies, tools, jigs, and fixtures -----	E2	19	5	0.3	4.8	0.3	0.5	3.6	8.2	3.5	11.5	0.4	0.3	5.9	
356	General industrial machinery -----	-	36	14	3.7	55.2	2.9	5.5	40.4	94.8	129.2	218.8	5.0	2.9	52.5	
3561	Pumps and pumping equipment -----	-	7	3	0.5	5.9	0.4	0.7	4.4	12.7	5.7	17.0	(D)	0.3	8.1	
3564	Blowers and fans -----	-	4	4	0.8	8.9	0.6	1.1	5.7	13.2	15.2	29.5	(D)	(NA)	(NA)	
358	Refrigeration and service machinery -----	-	19	9	2.5	34.6	1.7	3.1	21.5	38.9	132.7	172.5	2.1	2.5	72.8	
3585	Refrigeration and heating equipment -----	-	10	7	2.4	33.8	1.6	3.0	21.1	37.0	130.7	168.6	2.1	(NA)	(NA)	
359	Miscellaneous machinery, except electrical -----	E2	74	12	1.0	13.6	0.8	1.6	9.1	22.4	12.4	34.8	2.3	0.9	11.7	
3599	Machinery, except electrical, n.e.c. -----	E2	74	12	1.0	13.6	0.8	1.6	9.1	22.4	12.4	34.8	2.3	0.9	11.7	
36	Electric and electronic equipment -----	-	60	25	12.6	176.4	9.9	18.6	127.0	403.4	305.1	684.9	12.2	18.0	341.6	
362	Electrical industrial apparatus -----	-	8	4	0.5	6.4	0.2	0.5	2.6	11.2	14.0	22.9	(D)	1.0	15.9	
364	Electric lighting and wiring equipment -----	-	9	5	1.5	16.9	1.3	2.4	14.1	55.6	42.0	97.2	1.3	(NA)	(NA)	
369	Miscellaneous electrical equipment and supplies --	-	9	3	1.1	7.8	0.9	1.7	8.2	19.8	14.4	34.2	(D)	1.1	8.6	
37	Transportation equipment ---	-	36	11	5.1	87.2	2.7	5.6	42.9	157.1	63.7	246.4	4.7	6.2	116.7	
3714	Motor vehicle parts and accessories -----	-	11	3	1.1	15.2	0.9	1.6	11.9	32.1	21.0	53.2	(D)	1.4	25.2	
38	Instruments and related products -----	-	44	19	4.9	68.7	3.1	5.9	34.9	103.1	61.8	164.6	(D)	4.6	81.5	
382	Measuring and controlling devices -----	-	19	10	4.4	63.6	2.8	5.3	32.3	92.7	53.9	145.8	(D)	4.1	75.7	
39	Miscellaneous manufacturing industries ---	-	58	15	1.3	15.1	1.0	1.8	8.9	27.6	19.1	46.4	1.4	1.1	17.2	
399	Miscellaneous manufactures -----	-	40	12	1.1	13.2	0.8	1.6	7.9	23.9	15.2	36.9	1.3	1.1	15.6	
3993	Signs and advertising displays -----	-	27	7	0.5	5.9	0.4	0.8	3.9	11.1	6.3	17.3	(D)	0.5	6.3	
-	Administrative and auxiliary --	-	59	35	6.8	135.5	-	-	-	-	-	-	-	(NA)	(NA)	
	Dayton SMSA -----		1 302	506	106.5	1 748.3	72.9	150.4	1 120.4	3 261.0	2 975.8	6 159.8	266.8	118.8	2 152.9	
20	Food and kindred products --	E1	65	25	3.3	43.2	2.1	4.1	25.8	124.3	385.7	512.7	9.3	3.5	66.3	
201	Meat products -----	E1	14	7	1.3	16.1	1.0	2.0	12.9	30.9	156.5	187.6	(D)	1.2	20.2	
202	Dairy products -----	-	8	5	0.5	6.6	0.2	0.4	2.5	21.2	107.1	128.5	1.0	0.7	13.0	
205	Bakery products -----	-	10	3	0.5	6.3	0.3	0.7	3.8	14.3	10.0	23.8	0.3	0.5	13.8	

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Dayton SMSA—Con.														
20	Food and kindred products—Con.														
206	Beverages -----	E4	8	4	0.5	6.4	0.2	0.4	2.2	22.0	24.3	45.7	0.7	0.6	12.2
22	Textile mill products-----	-	6	3	0.7	5.7	0.5	1.1	3.6	16.1	10.0	24.4	(D)	0.9	8.4
23	Apparel and other textile products-----	-	26	6	0.3	2.1	0.3	0.5	1.5	4.8	4.8	9.6	0.1	0.4	3.0
24	Lumber and wood products--	E1	49	19	1.2	11.7	1.0	1.8	8.8	23.1	45.1	68.6	(D)	1.2	16.7
243	Millwork, plywood, and structural members-----	E2	16	5	0.3	3.4	0.3	0.5	2.8	6.0	7.8	13.9	(D)	0.4	4.7
245	Wood buildings and mobile homes-----	-	7	6	0.4	5.0	0.4	0.7	3.7	11.1	30.3	41.4	0.4	0.5	8.4
25	Furniture and fixtures-----	E1	25	7	0.6	5.2	0.5	0.8	3.5	9.0	10.6	19.4	0.3	0.3	3.8
251	Household furniture-----	-	12	4	0.4	2.8	0.4	0.6	2.2	5.4	8.0	13.2	0.2	(NA)	(NA)
26	Paper and allied products---	-	38	26	5.0	69.8	3.0	6.3	39.6	134.6	183.1	318.8	13.3	5.2	89.2
2621	Paper mills, except building paper-----	-	3	3	0.8	12.4	0.6	1.4	10.3	21.3	50.1	71.5	(D)	1.2	14.8
264	Miscellaneous converted paper products-----	-	21	11	3.1	43.7	1.6	3.3	20.0	89.6	89.1	180.3	7.9	3.0	56.4
2651	Folding paperboard boxes-----	-	4	4	0.3	3.0	0.2	0.4	1.9	5.4	5.5	10.4	0.1	(NA)	(NA)
2653	Corrugated and solid fiber boxes-----	E2	4	4	0.4	5.3	0.3	0.6	3.3	9.1	18.4	27.5	(D)	0.5	6.9
27	Printing and publishing-----	-	139	39	8.1	117.0	6.0	11.4	87.1	202.0	144.3	345.7	23.1	9.2	170.0
275	Commercial printing-----	-	86	18	4.7	71.7	3.9	7.5	59.2	99.2	94.8	194.5	(D)	5.9	95.2
279	Printing trade services-----	-	17	5	0.3	4.7	0.2	0.4	3.2	7.3	1.6	8.8	0.6	0.3	5.6
28	Chemicals and allied products-----	-	48	18	2.1	28.9	1.3	2.6	15.8	68.0	73.6	138.9	5.4	1.9	39.8
284	Soaps, cleaners, and toilet goods-----	-	10	4	0.6	7.8	0.5	0.9	5.6	16.3	12.9	29.1	0.6	0.7	11.9
2851	Paints and allied products-----	-	8	4	0.4	4.6	0.2	0.4	2.6	13.0	22.1	34.9	(D)	0.6	12.6
283	Miscellaneous chemical products-----	-	17	8	1.0	14.1	0.5	1.1	6.2	31.8	27.9	58.9	1.4	0.5	13.2
2831	Adhesives and sealants-----	-	4	4	0.8	11.5	0.4	0.9	5.3	21.2	19.5	40.0	1.2	0.3	8.2
30	Rubber and miscellaneous plastics products-----	-	53	28	11.8	215.1	9.3	18.9	163.1	466.0	339.3	779.7	27.8	10.1	250.2
32	Stone, clay, and glass products-----	-	56	23	2.0	25.6	1.6	3.1	16.2	59.4	52.5	112.4	4.8	1.8	39.3
33	Primary metal industries----	-	43	29	3.2	43.0	2.7	5.2	32.6	87.9	71.8	159.9	4.0	3.6	54.5
336	Nonferrous foundries-----	-	18	12	1.0	13.9	0.9	1.7	10.3	22.5	17.0	39.6	1.1	1.0	11.0
34	Fabricated metal products---	-	157	60	6.8	95.0	4.5	9.0	50.8	171.3	122.2	291.1	7.6	6.5	106.7
344	Fabricated structural metal products-----	-	49	15	1.5	19.1	1.1	2.1	11.7	34.2	42.2	75.5	1.6	1.6	22.3
3442	Metal doors, sash, and trim-----	-	11	4	0.5	4.3	0.4	0.6	2.7	7.2	10.9	18.0	0.4	0.7	10.7
3443	Fabricated plate work (boiler shops)-----	E1	7	3	0.3	4.2	0.2	0.5	2.9	7.4	7.7	14.8	0.5	(NA)	(NA)
345	Screw machine products, bolts, etc.-----	-	18	10	0.7	8.7	0.6	1.2	6.3	15.1	10.5	25.4	0.7	0.4	7.1
3469	Metal stampings, n.e.c.---	-	11	4	0.4	6.1	0.4	0.7	4.8	11.8	8.5	19.9	0.5	0.3	6.6
347	Metal services, n.e.c.-----	-	28	8	0.5	5.0	0.4	0.8	3.4	8.8	4.0	12.8	0.2	(NA)	(NA)
3471	Plating and polishing-----	-	22	8	0.5	4.6	0.4	0.8	3.1	7.9	3.5	11.4	0.2	(NA)	(NA)
349	Miscellaneous fabricated metal products-----	-	29	15	1.3	16.8	1.1	2.4	12.2	50.3	38.4	87.9	2.8	0.8	23.6
35	Machinery, except electrical-	-	379	131	25.7	449.7	19.2	41.5	325.8	931.6	592.4	1 498.9	75.3	38.5	917.5
353	Construction and related machinery-----	-	9	4	0.4	5.5	0.2	0.6	3.2	13.3	7.3	20.5	(D)	(NA)	(NA)
354	Metalworking machinery-----	-	192	63	5.5	96.6	4.2	9.3	69.3	174.5	62.9	230.9	8.1	4.6	93.7
3544	Special dies, tools, jigs, and fixtures-----	-	145	49	3.7	68.3	3.0	7.1	52.6	108.3	38.3	143.2	5.5	3.4	66.0
3545	Machine tool accessories-----	-	25	4	0.9	15.5	0.5	0.9	8.0	33.3	12.2	44.6	0.7	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Dayton SMSA—Con.														
35	Machinery, except electrical—Con.														
354	Metalworking machinery—Con.														
3549	Metalworking machinery, n.e.c.-----	-	6	4	0.3	3.9	0.2	0.4	2.2	8.5	5.1	13.0	0.4	(NA)	(NA)
355	Special industry machinery-----	-	23	16	3.5	49.2	2.1	4.4	27.6	99.8	59.9	153.7	4.6	2.4	52.6
3559	Special industry machinery, n.e.c.-----	-	13	10	0.8	11.1	0.5	1.0	6.0	14.2	10.7	26.0	0.9	0.3	5.0
356	General industrial machinery-----	-	44	16	3.8	52.9	2.6	5.4	32.5	122.8	72.2	193.7	8.0	2.2	40.9
3564	Blowers and fans-----	-	5	4	0.9	10.5	0.7	1.4	8.0	27.1	21.2	47.7	(D)	(NA)	(NA)
3569	General industrial machinery, n.e.c.-----	-	17	3	0.7	9.1	0.4	0.9	5.1	22.4	12.7	35.7	1.6	(NA)	(NA)
359	Miscellaneous machinery, except electrical-----	E1	90	24	1.4	19.4	1.1	2.9	14.0	34.2	16.2	49.2	(D)	1.3	22.4
3599	Machinery, except electrical, n.e.c.-----	E1	90	24	1.4	19.4	1.1	2.9	14.0	34.2	16.2	49.2	(D)	1.3	22.4
36	Electric and electronic equipment-----	-	63	29	13.6	190.2	9.6	19.4	120.7	358.6	398.4	746.3	28.9	5.6	91.7
362	Electrical industrial apparatus-----	-	10	8	3.7	49.7	2.1	4.7	26.8	93.5	102.0	192.1	4.5	3.6	56.9
37	Transportation equipment---	-	35	18	13.7	293.8	10.3	22.8	216.2	562.9	510.3	1 061.4	(D)	13.6	270.5
38	Instruments and related products-----	-	26	8	0.8	9.2	0.4	0.8	4.5	19.9	10.5	29.8	1.2	0.5	7.5
39	Miscellaneous manufacturing industries---	E1	45	8	0.7	6.8	0.5	1.0	3.8	12.9	13.1	25.5	0.4	0.6	10.3
399	Miscellaneous manufactures-----	E1	29	6	0.5	5.1	0.4	0.8	3.0	10.3	10.2	20.1	0.2	(NA)	(NA)
3999	Manufacturing industries, n.e.c.-----	E1	17	3	0.3	2.7	0.2	0.4	1.6	6.3	4.7	10.8	(D)	(NA)	(NA)
-	Administrative and auxiliary--	-	40	27	8.8	133.7	-	-	-	-	-	-	-	(NA)	(NA)
	Hamilton-Middletown SMSA--	-	238	102	29.4	508.5	20.5	40.5	329.4	962.3	1 153.1	2 121.6	57.9	28.5	585.5
20	Food and kindred products--	-	7	2	0.3	3.9	0.2	0.4	2.5	44.6	20.9	65.4	(D)	(NA)	(NA)
25	Furniture and fixtures-----	-	7	6	1.1	10.5	0.8	1.3	6.9	19.0	24.1	42.3	(D)	0.6	11.0
26	Paper and allied products---	-	18	18	5.4	83.4	4.4	9.1	65.0	142.8	233.8	381.6	6.9	5.8	105.9
2621	Paper mills, except building paper-----	-	5	5	3.3	55.1	2.7	5.7	43.4	91.2	161.9	259.3	(D)	3.7	69.4
265	Paperboard containers and boxes-----	-	7	7	1.1	14.1	0.8	1.6	10.4	26.4	37.7	63.2	(D)	1.1	19.9
27	Printing and publishing-----	-	25	7	0.6	7.4	0.4	0.6	4.2	16.2	4.6	20.7	(D)	0.6	9.0
275	Commercial printing-----	-	17	3	0.3	3.3	0.2	0.4	2.6	8.8	2.0	8.8	(D)	(NA)	(NA)
34	Fabricated metal products---	-	39	17	6.0	114.9	4.6	9.7	85.7	231.8	268.1	493.9	14.9	4.9	133.2
349	Miscellaneous fabricated metal products-----	-	16	8	2.1	26.7	1.5	2.7	16.7	55.8	41.5	96.0	(D)	(NA)	(NA)
	Huntington-Ashland, W. Va.-Ky.-Ohio, SMSA-----	-	339	125	29.6	438.8	20.9	40.9	286.1	754.3	1 982.8	2 728.9	233.7	25.7	530.1
20	Food and kindred products--	-	21	12	0.9	9.4	0.4	0.9	4.4	22.0	47.6	89.2	(D)	0.8	15.7
24	Lumber and wood products--	E2	42	4	0.3	2.7	0.3	0.6	2.3	5.5	7.7	13.4	0.7	0.6	7.1
25	Furniture and fixtures-----	E1	13	5	0.3	2.6	0.2	0.5	1.6	4.8	7.0	11.8	0.1	0.4	3.6
251	Household furniture-----	E1	10	4	0.3	1.9	0.2	0.4	1.2	3.7	6.3	10.0	(D)	(NA)	(NA)
27	Printing and publishing-----	-	38	4	0.7	7.4	0.4	0.8	4.4	18.3	6.6	24.9	1.3	0.7	10.3
2711	Newspapers-----	-	14	3	0.5	5.7	0.3	0.5	3.2	13.3	3.4	16.8	0.6	0.6	8.3
28	Chemicals and allied products-----	-	18	9	1.8	28.7	1.3	2.7	19.0	92.7	138.3	226.5	(D)	1.5	48.0
286	Industrial organic chemicals-----	-	4	3	0.6	9.1	0.4	0.9	6.2	24.0	32.6	54.8	(D)	(NA)	(NA)
32	Stone, clay, and glass products-----	-	44	18	3.3	44.1	2.8	6.4	35.8	93.6	53.9	147.5	5.4	3.3	59.7
3229	Pressed and blown glass, n.e.c.-----	-	6	5	0.4	3.3	0.3	0.5	2.3	4.9	2.2	7.1	0.5	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Huntington-Ashland, W. Va.-Ky.-Ohio, SMSA—Con.														
32	Stone, clay, and glass products—Con.														
325	Structural clay products ---	-	7	6	0.3	4.3	0.3	1.4	3.5	13.1	11.5	24.9	0.5	0.3	4.5
329	Miscellaneous nonmetallic mineral products-----	-	4	3	0.6	7.3	0.5	1.0	5.5	17.9	8.1	25.6	(D)	0.5	9.5
33	Primary metal industries ----	-	12	7	10.2	179.0	8.0	15.2	134.9	300.9	686.6	992.5	41.1	9.6	242.6
34	Fabricated metal products---	E1	29	13	1.2	11.3	0.9	1.8	7.6	23.4	21.6	44.6	1.7	1.0	11.7
344	Fabricated structural metal products-----	E1	16	9	0.8	7.0	0.6	1.0	4.6	12.8	13.9	26.7	0.8	0.5	7.5
35	Machinery, except electrical -	E1	43	15	1.9	23.0	1.3	2.3	14.7	47.3	46.7	88.6	2.3	1.0	12.1
353	Construction and related machinery-----	-	14	9	1.5	17.5	0.9	1.6	10.9	37.1	42.0	73.7	1.6	0.8	8.6
359	Miscellaneous machinery, except electrical-----	E5	22	5	0.4	4.8	0.3	0.6	3.4	8.8	4.0	12.7	0.7	(NA)	(NA)
3599	Machinery, except electrical, n.e.c.-----	E5	22	5	0.4	4.8	0.3	0.6	3.4	8.8	4.0	12.7	0.7	(NA)	(NA)
	Lima SMSA-----	-	330	138	30.6	451.6	23.4	47.2	322.9	1 216.0	2 467.4	3 644.9	76.4	28.2	688.0
20	Food and kindred products --	-	36	21	2.3	26.5	1.6	3.4	16.1	93.2	248.7	341.4	8.5	2.1	49.4
202	Dairy products-----	-	8	7	1.1	12.3	0.7	1.6	7.6	47.7	134.7	181.6	(D)	1.0	18.8
203	Preserved fruits and vegetables-----	-	7	2	0.3	2.7	0.3	0.5	2.2	9.5	14.4	23.7	0.9	(NA)	(NA)
23	Apparel and other textile products-----	-	8	5	0.4	2.5	0.4	0.7	2.1	4.3	8.6	12.8	(D)	(NA)	(NA)
24	Lumber and wood products --	-	21	5	0.6	5.9	0.5	1.0	4.8	9.0	18.9	28.1	0.7	0.7	6.9
26	Paper and allied products ---	-	6	4	0.6	8.1	0.5	1.0	6.1	17.7	21.0	38.6	0.1	0.6	9.3
27	Printing and publishing -----	-	42	10	0.7	7.0	0.5	0.9	4.3	17.2	11.3	28.4	0.8	0.8	14.7
2711	Newspapers-----	-	14	7	0.3	3.2	0.2	0.3	1.2	8.9	2.5	11.4	0.2	0.5	8.6
3079	Miscellaneous plastics products-----	-	8	2	0.3	3.5	0.3	0.6	2.8	7.4	7.0	14.3	0.2	(NA)	(NA)
32	Stone, clay, and glass products-----	-	30	8	1.2	13.3	1.0	1.7	9.7	30.5	17.9	48.1	1.5	1.2	20.9
34	Fabricated metal products---	-	47	25	3.7	48.6	2.7	5.2	30.0	116.6	146.3	260.5	6.7	3.4	72.9
344	Fabricated structural metal products-----	-	11	7	0.7	8.8	0.5	1.0	5.5	16.9	21.8	38.1	0.9	0.5	10.0
346	Metal forgings and stampings-----	-	14	10	1.5	16.7	1.2	2.3	12.2	37.5	42.2	79.1	4.8	1.2	21.5
3465	Automotive stampings --	-	6	4	0.7	7.8	0.6	1.0	5.9	21.0	26.8	47.3	(D)	0.5	8.5
3469	Metal stampings, n.e.c.--	-	8	6	0.8	8.9	0.6	1.2	6.4	16.4	15.5	31.8	(D)	0.7	12.1
35	Machinery, except electrical -	-	63	25	4.8	64.8	3.6	6.7	43.9	141.0	136.3	270.0	7.6	4.3	79.7
352	Farm and garden machinery-----	-	9	4	0.3	3.1	0.2	0.4	2.0	7.9	11.9	20.7	0.5	(NA)	(NA)
3523	Farm machinery and equipment-----	-	9	4	0.3	3.1	0.2	0.4	2.0	7.9	11.9	20.7	0.5	(NA)	(NA)
355	Special industry machinery-----	-	7	4	0.6	7.5	0.4	0.7	4.6	17.6	28.1	42.9	0.9	0.3	2.8
356	General industrial machinery-----	-	6	5	0.3	2.9	0.2	0.3	1.8	5.5	4.0	9.2	0.3	(NA)	(NA)
36	Electric and electronic equipment-----	-	10	5	3.4	47.7	2.5	5.3	33.4	83.1	84.6	163.8	3.8	(NA)	(NA)
37	Transportation equipment ---	-	16	10	8.8	138.1	5.5	12.3	109.7	303.5	542.6	815.7	34.0	5.4	126.2
3714	Motor vehicle parts and accessories-----	-	9	7	5.2	116.0	4.3	10.1	92.9	269.1	502.6	743.8	(D)	(NA)	(NA)
	Lorain-Elyria SMSA-----	-	341	124	39.8	710.5	30.4	63.5	521.0	1 846.8	3 367.2	5 193.0	93.8	36.1	1 033.1
28	Chemicals and allied products-----	-	8	4	1.2	21.4	0.8	1.8	14.6	58.6	101.9	160.4	(D)	1.1	32.1
332	Iron and steel foundries ---	-	4	4	0.9	12.4	0.7	1.5	8.9	25.4	17.5	43.2	1.3	1.3	19.6
34	Fabricated metal products---	-	67	34	7.9	139.3	5.7	12.4	93.9	313.4	262.1	567.2	19.9	6.7	179.5

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Lorain-Elyria SMSA—Con.														
34	Fabricated metal products—Con.														
344	Fabricated structural metal products -----	E1	11	6	0.6	8.2	0.4	0.7	5.4	18.7	9.5	27.9	0.7	0.5	10.4
345	Screw machine products, bolts, etc. -----	-	16	9	1.1	15.6	0.7	1.5	8.8	37.8	21.3	58.0	2.2	0.9	22.1
349	Miscellaneous fabricated metal products -----	-	13	9	1.3	16.1	1.0	2.1	11.6	31.3	19.8	49.6	(D)	0.7	12.3
3494	Valves and pipe fittings -	-	4	3	0.5	5.4	0.3	0.7	3.8	12.2	8.2	19.0	(D)	(NA)	(NA)
35	Machinery, except electrical -	-	77	17	3.4	44.1	2.3	4.4	27.2	111.3	92.5	204.8	4.5	3.9	88.9
354	Metalworking machinery ---	E1	19	4	0.3	4.0	0.2	0.5	3.0	6.1	3.1	9.0	0.4	(NA)	(NA)
356	General industrial machinery -----	-	15	5	1.0	14.3	0.5	1.0	7.4	46.5	13.2	59.7	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	16	6	1.2	14.8	0.8	1.7	7.8	25.7	15.7	40.9	0.9	(NA)	(NA)
372	Aircraft and parts -----	-	4	3	0.5	7.9	0.3	0.6	3.9	18.4	8.4	26.5	0.9	(NA)	(NA)
	Mansfield SMSA -----	-	207	89	20.9	311.7	15.3	31.1	219.9	517.3	839.3	1 453.4	51.3	22.6	478.4
27	Printing and publishing -----	-	27	6	0.9	10.5	0.6	1.2	8.8	22.3	15.0	37.0	0.7	1.0	17.2
3079	Miscellaneous plastics products -----	-	7	6	0.3	2.3	0.2	0.4	1.7	6.1	5.0	10.9	0.8	(NA)	(NA)
32	Stone, clay, and glass products -----	-	12	5	0.6	7.0	0.4	0.9	5.1	15.5	12.9	28.8	3.0	0.3	4.7
34	Fabricated metal products ---	-	38	27	4.7	93.7	4.0	8.9	75.8	186.1	219.3	404.1	15.8	11.0	113.9
35	Machinery, except electrical -	-	42	10	1.8	23.8	1.2	2.4	13.8	52.9	42.9	94.9	0.6	1.4	26.7
353	Construction and related machinery -----	E1	7	4	0.3	4.5	0.2	0.4	2.6	8.9	7.7	16.3	0.3	(NA)	(NA)
36	Electric and electronic equipment -----	-	15	10	5.4	66.7	3.4	6.1	40.2	99.6	135.7	232.4	4.8	7.4	123.8
37	Transportation equipment ---	-	6	3	0.3	4.0	0.2	0.4	2.2	7.7	6.2	13.9	0.3	0.4	8.7
	Parkersburg-Marietta, W. Va.-Ohio, SMSA -----	-	182	63	15.8	222.4	11.2	21.7	139.7	724.9	779.3	1 479.2	85.3	18.0	482.2
24	Lumber and wood products --	E1	31	2	0.3	2.3	0.3	0.5	1.8	4.8	5.6	10.4	0.8	(NA)	(NA)
27	Printing and publishing -----	-	18	4	0.4	4.3	0.2	0.4	2.2	9.8	3.5	13.4	0.3	0.4	6.4
28	Chemicals and allied products -----	-	12	8	4.5	81.1	3.0	6.2	46.8	427.4	404.8	808.4	64.9	6.6	265.1
32	Stone, clay, and glass products -----	-	27	10	2.7	35.7	2.2	4.3	27.6	80.4	40.8	121.2	4.0	2.6	49.6
322	Glass and glassware, pressed or blown -----	-	4	4	1.7	21.8	1.4	2.7	16.7	49.5	17.9	67.8	1.9	1.6	31.4
34	Fabricated metal products ---	-	19	11	2.0	24.3	1.3	2.3	14.8	60.1	70.6	133.4	0.8	2.1	42.2
344	Fabricated structural metal products -----	-	12	6	0.4	5.0	0.3	0.5	3.2	11.0	8.0	18.8	0.2	0.5	8.2
3444	Sheet metal work -----	-	4	3	0.3	3.2	0.2	0.3	2.1	5.7	2.9	8.5	(D)	0.4	4.5
	Springfield SMSA -----	-	262	100	18.3	245.0	13.0	24.7	169.2	550.9	676.0	1 193.5	32.6	20.1	390.5
20	Food and kindred products --	-	16	4	1.5	10.3	0.3	0.6	3.4	24.8	39.5	63.6	(D)	0.7	17.1
26	Paper and allied products ---	-	7	5	0.4	5.2	0.3	0.7	3.9	14.7	15.5	30.0	(D)	(NA)	(NA)
27	Printing and publishing -----	-	24	9	0.8	8.8	0.5	0.9	5.9	17.2	8.7	25.9	0.8	0.6	9.4
30	Rubber and miscellaneous plastics products -----	-	11	3	0.5	3.7	0.4	0.8	2.7	7.8	5.6	13.5	0.8	0.4	5.6
3079	Miscellaneous plastics products -----	-	11	3	0.5	3.7	0.4	0.8	2.7	7.8	5.6	13.5	0.8	0.4	5.6
32	Stone, clay, and glass products -----	-	18	6	0.3	3.1	0.2	0.4	2.1	6.8	7.5	14.1	0.5	0.4	5.8
33	Primary metal industries ----	-	9	5	0.6	7.6	0.5	1.0	6.0	14.6	9.0	23.3	0.4	0.5	8.0

See footnotes at end of table.

Table 6. **Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.**

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Springfield SMSA—Con.														
34	Fabricated metal products ---	-	42	18	1.3	13.8	1.0	1.8	8.5	23.2	22.5	46.1	1.0	1.4	17.9
344	Fabricated structural metal products -----	E1	10	3	0.3	2.8	0.2	0.4	1.8	3.9	6.2	10.2	0.3	0.4	4.9
349	Miscellaneous fabricated metal products -----	-	9	3	0.4	5.1	0.2	0.4	2.4	7.9	5.7	13.8	0.2	0.5	6.4
35	Machinery, except electrical -	-	69	23	3.8	50.9	2.6	5.0	30.3	133.3	87.4	210.8	4.4	3.1	51.4
354	Metalworking machinery ---	-	18	6	0.4	5.9	0.3	0.7	3.8	11.6	5.2	16.7	0.5	0.8	8.0
359	Miscellaneous machinery, except electrical -----	-	28	4	0.3	4.1	0.3	0.5	2.7	7.3	3.4	10.7	0.9	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	-	28	4	0.3	4.1	0.3	0.5	2.7	7.3	3.4	10.7	0.9	(NA)	(NA)
39	Miscellaneous manufacturing industries ---	-	9	2	0.4	5.0	0.4	0.7	3.7	9.0	5.8	14.7	(D)	0.4	4.9
	Steubenville-Weirton, Ohio-W. Va., SMSA -----	-	138	67	26.7	497.6	21.2	41.0	382.6	955.0	1 643.9	2 801.6	87.9	29.0	705.7
26	Paper and allied products ---	-	10	7	0.6	6.8	0.4	0.8	4.7	14.1	20.0	34.3	2.4	(NA)	(NA)
264	Miscellaneous converted paper products -----	-	6	4	0.3	3.5	0.2	0.5	2.4	7.9	11.0	18.9	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	6	4	0.4	6.9	0.3	0.7	4.2	29.7	49.7	79.0	(D)	0.5	17.3
32	Stone, clay, and glass products -----	-	27	17	3.5	34.6	3.0	5.3	28.0	61.3	31.9	90.9	6.2	3.8	41.2
3255	Clay refractories -----	-	7	5	0.5	7.2	0.4	0.9	5.4	14.7	10.0	24.3	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	17	11	1.4	19.3	1.1	2.1	13.5	65.0	109.8	175.6	2.2	1.7	34.0
346	Metal forgings and stampings -----	-	4	2	0.5	6.4	0.4	0.7	4.4	11.0	13.5	24.6	0.4	(NA)	(NA)
	Toledo, Ohio-Mich., SMSA ---	-	1 247	455	92.7	1 504.2	65.2	128.4	963.6	3 203.0	5 007.8	8 169.9	259.7	91.2	1 878.9
20	Food and kindred products --	-	87	30	4.3	56.4	3.2	6.4	38.1	234.7	463.2	896.3	9.7	5.1	149.7
201	Meat products -----	-	15	5	0.5	5.9	0.4	0.8	4.7	17.6	110.5	127.6	0.5	0.4	3.3
202	Dairy products -----	-	7	7	0.5	6.8	0.3	0.8	3.3	17.9	56.7	74.4	1.0	0.6	8.8
205	Bakery products -----	-	10	4	0.5	6.3	0.3	0.5	3.7	15.7	13.6	29.3	0.7	0.7	13.3
22	Textile mill products -----	-	6	4	1.1	15.2	0.7	1.5	9.4	31.2	54.4	86.6	(D)	1.6	33.4
24	Lumber and wood products --	-	46	14	1.1	11.6	0.8	1.5	6.8	27.3	34.4	60.5	0.8	1.3	20.4
243	Millwork, plywood, and structural members -----	-	17	6	0.4	3.5	0.3	0.6	2.5	10.7	11.3	21.1	0.3	0.3	3.7
25	Furniture and fixtures -----	-	29	11	2.2	23.5	1.7	3.1	15.6	35.0	31.7	65.1	2.7	1.9	30.9
251	Household furniture -----	-	11	6	1.8	18.8	1.4	2.6	12.8	26.6	25.1	50.9	2.3	1.4	21.7
26	Paper and allied products ---	-	37	27	2.9	37.6	2.3	4.8	27.6	72.6	105.9	178.0	5.0	3.1	53.4
2631	Paperboard mills -----	-	3	3	0.6	10.9	0.5	1.2	8.5	12.9	17.4	30.8	1.0	(NA)	(NA)
264	Miscellaneous converted paper products -----	-	12	8	1.1	11.3	0.8	1.7	8.1	25.9	37.3	82.3	2.1	(NA)	(NA)
2643	Bags, except textile bags -----	-	3	3	0.3	3.4	0.3	0.5	2.5	7.1	11.2	18.2	(D)	(NA)	(NA)
265	Paperboard containers and boxes -----	-	22	16	1.2	15.3	0.9	1.9	11.0	33.8	51.2	84.9	2.0	1.3	22.1
2653	Corrugated and solid fiber boxes -----	E1	16	11	0.9	11.5	0.7	1.3	8.0	24.1	34.9	59.1	1.5	0.9	14.4
27	Printing and publishing -----	-	146	18	2.3	34.7	1.4	2.5	19.3	97.2	25.6	122.6	3.7	2.4	42.1
2752	Commercial printing, lithographic -----	-	35	7	0.4	6.0	0.3	0.6	3.7	10.5	7.5	17.9	1.1	0.4	5.7
28	Chemicals and allied products -----	-	47	15	1.9	31.8	1.2	2.3	18.6	134.0	197.0	324.2	3.5	1.9	84.2
284	Soaps, cleaners, and toilet goods -----	-	10	3	0.4	5.9	0.2	0.4	2.6	34.5	22.0	56.2	0.2	0.5	34.5
289	Miscellaneous chemical products -----	-	12	5	0.4	5.2	0.2	0.4	2.5	15.2	21.8	36.7	0.8	(NA)	(NA)
29	Petroleum and coal products -----	-	17	7	1.7	35.2	1.1	2.4	22.7	325.5	1 529.8	1 841.0	30.9	1.7	146.6

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Toledo, Ohio-Mich., SMSA—Con.														
29	Petroleum and coal products—Con.														
2911	Petroleum refining -----	-	3	3	1.3	30.5	0.9	1.9	19.6	310.4	1 505.5	1 801.8	(D)	1.6	140.9
30	Rubber and miscellaneous plastics products -----	-	58	33	3.4	39.4	2.7	5.3	26.9	89.0	90.5	177.3	48.4	3.0	47.5
32	Stone, clay, and glass products -----	-	86	30	10.1	168.5	8.5	17.4	138.0	386.3	261.5	643.7	31.9	9.8	285.6
33	Primary metal industries -----	-	53	35	6.5	96.5	5.3	10.5	75.3	171.2	323.4	496.5	14.5	6.1	112.4
331	Blast furnace and basic steel products -----	-	15	11	1.9	29.4	1.5	3.1	23.5	42.9	110.3	157.2	3.1	1.3	29.2
3317	Steel pipe and tubes -----	-	5	5	0.9	13.1	0.8	1.5	10.8	24.1	29.5	53.6	(D)	0.4	6.2
332	Iron and steel foundries -----	-	13	8	1.2	15.8	1.0	2.0	12.5	28.1	17.1	44.8	1.0	0.8	13.5
3325	Steel foundries, n.e.c. -----	-	3	3	0.8	10.9	0.6	1.3	8.9	19.2	9.7	28.5	(D)	(NA)	(NA)
34	Fabricated metal products -----	-	173	82	9.4	139.3	7.5	14.4	101.6	302.2	414.2	713.8	21.5	7.5	125.1
341	Metal cans and shipping containers -----	-	4	4	0.6	10.9	0.5	1.1	9.0	29.7	57.3	85.8	(D)	(NA)	(NA)
3411	Metal cans -----	-	4	4	0.6	10.9	0.5	1.1	9.0	29.7	57.3	85.8	(D)	(NA)	(NA)
344	Fabricated structural metal products -----	-	37	13	1.3	20.3	1.0	1.7	13.6	48.3	104.9	151.6	2.7	1.2	19.4
3444	Sheet metal work -----	E1	12	3	0.6	9.1	0.4	0.7	6.7	22.0	75.4	96.5	(D)	(NA)	(NA)
345	Screw machine products, bolts, etc. -----	-	14	3	0.4	5.0	0.3	0.7	4.0	6.7	11.3	17.9	0.4	0.4	6.0
346	Metal forgings and stampings -----	-	54	39	5.2	79.7	4.3	8.3	60.1	167.4	187.5	356.2	12.8	3.8	62.3
3465	Automotive stampings -----	-	25	21	3.4	56.1	2.8	5.8	42.6	124.1	145.5	270.4	11.2	2.4	40.4
347	Metal services, n.e.c. -----	-	28	7	0.5	4.7	0.4	0.8	3.3	9.0	3.2	12.2	0.4	0.5	9.2
3471	Plating and polishing -----	-	22	4	0.3	3.4	0.3	0.5	2.3	7.0	2.2	9.2	(D)	0.3	6.7
349	Miscellaneous fabricated metal products -----	-	25	11	0.9	11.5	0.7	1.3	8.0	21.9	34.8	56.4	1.1	1.1	18.1
3499	Fabricated metal products, n.e.c. -----	-	11	5	0.3	5.1	0.3	0.5	3.8	7.2	14.5	21.5	0.3	(NA)	(NA)
35	Machinery, except electrical -----	-	256	60	7.7	118.0	5.2	10.5	70.8	250.0	158.4	411.2	10.4	9.7	163.4
354	Metalworking machinery -----	-	101	23	1.9	30.6	1.5	3.0	22.2	46.3	32.4	78.4	2.3	1.9	35.1
356	General industrial machinery -----	-	37	11	2.7	44.4	1.5	3.1	22.6	79.4	59.5	138.7	4.3	2.8	49.0
358	Refrigeration and service machinery -----	-	8	4	0.9	10.3	0.7	1.4	6.7	22.4	21.8	43.6	(D)	1.1	21.3
359	Miscellaneous machinery, except electrical -----	E2	67	8	0.6	8.5	0.5	0.8	6.0	14.1	7.9	21.9	1.3	1.0	16.0
3599	Machinery, except electrical, n.e.c. -----	E2	67	8	0.6	8.5	0.5	0.8	6.0	14.1	7.9	21.9	1.3	(NA)	(NA)
36	Electric and electronic equipment -----	-	29	13	5.7	95.7	4.1	7.8	61.0	237.9	139.1	370.1	(D)	5.8	132.1
37	Transportation equipment -----	-	50	26	20.8	392.9	17.8	34.8	319.4	758.7	1 144.8	1 900.2	50.2	19.5	411.4
371	Motor vehicles and equipment -----	-	31	19	19.5	370.5	16.8	33.0	305.4	716.3	1 107.0	1 818.3	56.6	17.6	381.3
373	Ship and boat building and repairing -----	-	9	3	0.6	7.9	0.6	0.8	7.2	11.8	3.4	15.2	(D)	0.8	9.6
38	Instruments and related products -----	-	22	5	0.9	9.2	0.6	1.2	5.8	21.0	11.6	32.4	0.6	0.4	7.3
384	Medical instruments and supplies -----	-	13	4	0.8	8.2	0.6	1.1	5.2	18.1	10.0	28.1	0.5	0.4	6.5
39	Miscellaneous manufacturing industries -----	-	34	7	0.9	7.7	0.7	1.3	4.9	24.6	17.3	40.7	0.5	1.3	17.1
-	Administrative and auxiliary -----	-	45	31	9.3	188.4	-	-	-	-	-	-	-	(NA)	(NA)
	Wheeling, W. Va.-Ohio, SMSA -----	-	156	68	13.0	173.5	9.8	17.9	117.2	427.3	552.0	978.6	40.3	13.3	202.8
20	Food and kindred products -----	-	20	10	0.9	11.0	0.5	1.0	4.9	42.7	58.8	102.3	3.7	1.3	23.3
202	Dairy products -----	-	8	5	0.4	4.8	0.1	0.3	1.4	20.3	36.7	56.9	(D)	0.4	6.8
23	Apparel and other textile products -----	E8	7	3	0.7	3.9	0.6	1.0	3.4	5.0	0.6	5.6	(D)	0.7	3.7
27	Printing and publishing -----	-	23	4	0.4	4.3	0.2	0.4	1.4	9.7	3.1	12.7	0.4	0.5	7.1

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Wheeling, W. Va.-Ohio, SMSA—Con.														
28	Chemicals and allied products -----	-	10	4	1.7	32.9	1.1	2.2	20.4	92.7	122.3	220.8	(D)	0.7	26.7
32	Stone, clay, and glass products -----	-	15	6	1.1	12.5	0.8	1.5	8.6	24.5	10.8	34.9	1.6	1.2	12.8
33	Primary metal industries ----	-	11	7	1.4	21.7	1.1	2.0	17.1	47.5	50.0	96.8	1.4	(NA)	(NA)
34	Fabricated metal products ---	-	19	15	3.3	42.9	2.7	4.7	32.4	110.0	193.8	298.6	4.3	2.6	34.2
349	Miscellaneous fabricated metal products -----	-	3	3	1.2	11.8	1.0	1.6	8.7	26.8	25.8	52.1	0.9	0.9	14.3
	Youngstown-Warren SMSA --	-	620	258	79.5	1 368.2	62.8	120.4	1 026.7	2 620.2	3 996.0	6 612.1	131.0	(NA)	(NA)
20	Food and kindred products --	E1	39	15	1.4	17.1	0.7	1.5	8.0	41.2	72.9	114.3	3.3	(NA)	(NA)
208	Beverages -----	E4	4	4	0.3	3.9	0.1	0.2	1.2	10.1	8.8	18.9	(D)	(NA)	(NA)
2086	Bottled and canned soft drinks -----	E4	4	4	0.3	3.9	0.1	0.2	1.2	10.1	8.8	18.9	(D)	(NA)	(NA)
23	Apparel and other textile products -----	-	13	5	0.7	4.5	0.7	1.0	2.4	9.8	9.0	18.8	0.1	(NA)	(NA)
26	Paper and allied products ---	-	4	4	0.4	4.9	0.3	0.6	3.2	9.2	13.2	22.2	0.7	(NA)	(NA)
27	Printing and publishing -----	-	52	10	1.3	18.4	0.8	1.8	11.8	37.5	29.8	67.3	1.3	(NA)	(NA)
275	Commercial printing -----	-	33	6	0.5	7.2	0.4	0.8	5.4	13.3	21.7	35.1	(D)	(NA)	(NA)
2752	Commercial printing, lithographic -----	-	15	5	0.4	5.8	0.3	0.6	4.5	9.9	18.8	28.7	0.1	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	30	15	1.5	18.7	1.3	2.7	14.0	34.2	33.4	68.0	1.1	(NA)	(NA)
33	Primary metal industries ----	-	43	32	26.4	489.4	21.4	39.3	384.0	799.6	1 736.8	2 565.9	46.3	(NA)	(NA)
331	Blast furnace and basic steel products-----	-	15	15	23.7	448.4	19.4	35.4	355.8	707.4	1 553.4	2 298.6	37.7	(NA)	(NA)
3316	Cold finishing of steel shapes -----	-	4	4	1.2	22.3	0.9	1.6	15.9	45.2	93.8	136.3	(D)	(NA)	(NA)
335	Nonferrous rolling and drawing -----	-	11	11	1.9	30.0	1.4	2.8	20.2	62.7	132.4	188.2	5.3	(NA)	(NA)
34	Fabricated metal products ---	-	127	73	9.4	155.3	7.4	14.3	112.9	325.8	354.6	568.1	16.0	(NA)	(NA)
341	Metal cans and shipping containers -----	-	6	5	0.7	9.9	0.6	1.1	7.9	23.5	28.3	51.8	(D)	(NA)	(NA)
344	Fabricated structural metal products -----	-	55	31	2.4	32.3	1.8	3.3	21.8	70.3	85.8	154.6	2.6	(NA)	(NA)
3441	Fabricated structural metal -----	-	8	4	0.5	6.5	0.3	0.6	3.9	13.5	20.5	33.7	0.9	(NA)	(NA)
3442	Metal doors, sash, and trim -----	-	16	9	0.8	8.6	0.6	1.1	6.5	17.3	22.0	38.9	0.4	(NA)	(NA)
3449	Miscellaneous metal work -----	-	6	3	0.3	3.5	0.2	0.4	2.3	14.3	20.2	34.0	0.1	(NA)	(NA)
346	Metal forgings and stampings -----	-	17	13	3.8	76.2	3.1	6.2	57.9	142.0	142.3	280.3	(D)	(NA)	(NA)
3469	Metal stampings, n.e.c. --	-	11	7	1.0	15.0	0.7	1.3	9.5	26.0	35.3	59.4	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	28	15	2.0	30.3	1.5	2.9	20.5	70.9	85.0	150.1	3.6	(NA)	(NA)
3499	Fabricated metal products, n.e.c. -----	-	18	10	1.1	17.2	0.9	1.6	12.0	32.4	58.5	89.0	(D)	(NA)	(NA)
35	Machinery, except electrical -	-	118	37	5.2	79.6	4.0	7.4	57.2	192.4	140.3	322.2	4.6	(NA)	(NA)
354	Metalworking machinery ---	-	51	18	2.6	38.8	2.2	4.0	32.5	104.6	79.9	178.2	1.9	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E1	35	6	0.4	4.5	0.3	0.6	3.3	8.4	4.8	13.3	0.3	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E1	35	6	0.4	4.5	0.3	0.6	3.3	8.4	4.8	13.3	0.3	(NA)	(NA)
-	Administrative and auxiliary --	-	12	5	1.4	28.0	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
 (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
² Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Adams County -----	-	29	5	1.0	10.2	0.9	1.5	6.9	23.8	34.3	57.9	2.1	0.5	14.3
	Allen County -----	-	158	72	16.8	272.8	12.6	26.1	197.0	795.5	1 877.1	2 620.4	51.6	15.5	400.5
20	Food and kindred products --	-	16	10	0.7	9.1	0.4	0.8	4.3	22.8	51.8	74.9	1.5	0.8	19.0
34	Fabricated metal products ---	-	19	12	1.4	16.4	1.2	2.2	12.2	39.8	42.9	82.0	1.2	1.7	30.6
346	Metal forgings and stampings -----	-	4	4	0.7	7.8	0.6	1.1	6.1	18.4	21.2	39.3	0.6	(NA)	(NA)
35	Machinery, except electrical --	-	31	11	2.3	29.6	1.8	3.1	22.2	57.5	66.7	119.4	1.7	2.3	34.2
371	Motor vehicles and equipment -----	-	7	6	5.5	120.4	4.5	10.3	95.3	270.7	519.4	760.4	(D)	(NA)	(NA)
	Ashland County -----	-	81	34	7.7	90.4	5.4	11.2	57.3	215.4	229.4	445.9	7.1	7.4	128.3
30	Rubber and miscellaneous plastics products -----	-	7	7	1.4	16.1	1.1	2.2	10.7	39.6	29.0	68.3	1.2	1.3	23.7
35	Machinery, except electrical --	-	20	7	1.6	19.2	1.0	2.2	12.1	41.8	35.3	75.5	0.8	1.5	22.3
	Ashtabula County -----	-	167	77	12.8	164.2	10.2	19.0	118.8	388.6	456.6	843.5	41.0	12.6	235.8
28	Chemicals and allied products -----	-	12	8	1.1	19.0	0.8	1.7	12.9	55.8	103.5	162.0	13.9	1.3	37.7
30	Rubber and miscellaneous plastics products -----	-	23	16	3.2	34.6	2.8	5.3	26.5	63.7	63.2	126.3	7.8	2.3	32.1
3079	Miscellaneous plastics products -----	-	17	13	2.9	31.2	2.5	4.9	24.0	57.6	80.2	117.3	7.7	(NA)	(NA)
34	Fabricated metal products ---	-	26	13	1.7	20.1	1.3	2.4	14.9	55.3	40.6	94.1	2.5	2.7	40.6
35	Machinery, except electrical --	-	26	2	0.5	6.4	0.5	0.9	5.2	11.2	13.7	23.7	0.7	0.5	8.3
36	Electric and electronic equipment -----	-	8	8	2.2	27.9	1.7	3.0	19.7	73.9	45.3	119.4	4.0	1.7	39.7
	Athens County -----	-	44	12	1.3	13.5	1.0	1.8	8.7	31.1	25.0	53.6	1.4	1.3	18.9
	Auglaize County -----	-	75	32	6.6	83.7	5.0	9.6	56.3	199.7	269.6	464.8	14.3	5.8	100.4
20	Food and kindred products --	-	9	6	0.9	8.9	0.6	1.1	4.6	36.0	81.3	116.9	(D)	0.7	11.2
34	Fabricated metal products ---	-	12	6	0.5	5.8	0.4	0.7	3.7	11.9	11.7	23.5	(D)	(NA)	(NA)
35	Machinery, except electrical --	-	19	9	2.2	31.3	1.6	3.2	19.2	73.6	55.2	125.7	5.3	1.6	32.7
	Belmont County -----	-	64	22	4.1	53.1	3.2	5.8	39.3	140.5	226.6	388.2	5.4	5.2	69.3
32	Stone, clay, and glass products -----	-	10	3	0.5	5.1	0.4	0.7	3.6	9.0	4.3	13.2	(D)	0.6	5.6
	Brown County -----	-	23	8	1.1	11.5	0.8	1.6	8.2	16.9	23.0	46.2	0.6	0.7	11.5
	Butler County (Coextensive with Hamilton-Middletown, Ohio, SMSA; see table 6.)	-													
	Carroll County -----	-	36	18	1.5	16.2	1.2	2.2	11.1	40.8	45.5	85.4	1.8	1.2	20.3
	Champaign County -----	-	50	17	3.0	31.6	2.4	4.7	24.1	113.2	75.6	180.2	5.2	3.0	71.7
	Clark County -----	-	212	83	15.3	213.4	10.6	20.1	145.1	437.7	600.4	1 013.3	27.4	17.2	316.1
33	Primary metal industries -----	-	9	5	0.6	7.6	0.5	1.0	6.0	14.6	9.0	23.3	0.4	0.5	8.0
34	Fabricated metal products ---	-	32	16	1.1	12.3	0.8	1.5	7.4	19.9	20.3	40.6	0.8	(NA)	(NA)
35	Machinery, except electrical --	-	82	20	3.6	49.3	2.4	4.7	29.1	131.2	82.6	204.0	4.3	(NA)	(NA)
	Clermont County -----	-	83	15	2.4	29.2	1.6	3.0	16.0	63.6	79.9	141.4	3.1	1.9	52.2

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977											1972		
			All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)	
			E ¹	Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)							Wages (million dollars)
	Clinton County -----	-		54	29	4.2	45.4	3.3	6.6	32.8	109.7	92.5	199.9	8.4	3.0	54.3
30	Rubber and miscellaneous	-		5	5	0.7	6.6	0.5	1.0	4.6	14.3	16.3	30.8	(D)	(NA)	(NA)
3079	Miscellaneous plastics	-		5	5	0.7	6.6	0.5	1.0	4.6	14.3	16.3	30.8	(D)	(NA)	(NA)
34	Fabricated metal products ---	-		13	9	1.2	13.3	1.1	2.2	10.5	35.9	21.9	56.6	2.0	1.6	30.3
	Columbiana County -----	-		204	77	10.5	127.6	7.9	14.8	85.6	247.4	184.7	422.4	9.4	10.2	143.4
25	Furniture and fixtures -----	-		8	4	0.6	5.4	0.5	0.8	3.8	9.1	10.2	19.2	(D)	(NA)	(NA)
251	Household furniture -----	-		8	4	0.6	5.4	0.5	0.8	3.8	9.1	10.2	19.2	(D)	(NA)	(NA)
32	Stone, clay, and glass	-		31	14	2.2	22.8	1.8	3.5	16.4	45.2	27.5	72.8	1.4	2.2	32.2
325	Structural clay products ---	-		9	7	0.8	8.8	0.6	1.2	6.1	16.0	8.4	24.2	0.6	0.9	14.0
326	Pottery and related	-		13	5	1.2	10.4	1.0	1.9	7.7	17.1	4.2	21.4	0.3	1.1	10.7
33	Primary metal industries -----	E1		12	6	0.5	6.2	0.4	0.8	4.8	11.1	11.6	22.6	0.8	(NA)	(NA)
34	Fabricated metal products ---	-		24	13	1.6	19.9	1.3	2.3	15.1	44.5	36.8	81.3	1.8	1.8	31.5
35	Machinery, except electrical --	-		55	19	3.9	57.7	2.6	5.0	35.3	104.5	64.6	159.5	3.2	3.6	44.8
354	Metalworking machinery ---	-		20	9	1.4	22.7	1.0	2.1	15.0	39.8	22.5	56.1	1.3	1.3	15.4
356	General industrial	-		7	3	1.1	16.1	0.6	1.3	8.8	29.9	21.2	48.4	1.0	1.0	12.3
	machinery -----	-		7	3	1.1	16.1	0.6	1.3	8.8	29.9	21.2	48.4	1.0	1.0	12.3
	Coshocton County -----	-		55	24	5.2	74.2	3.6	7.7	47.9	163.6	200.8	362.8	18.0	5.3	112.2
27	Printing and publishing -----	-		8	3	0.8	8.4	0.3	0.6	2.9	14.3	6.7	20.9	(D)	0.7	9.3
	Crawford County -----	-		104	43	9.5	131.8	6.7	13.1	85.9	261.6	275.4	536.8	9.1	10.6	188.5
35	Machinery, except electrical --	-		22	12	3.6	57.2	2.5	4.8	37.3	99.4	148.3	253.2	4.8	3.4	67.4
	Cuyahoga County -----	-		3 643	1 356	226.1	3 737.6	149.5	305.7	2 229.0	7 029.9	7 557.6	14 494.6	465.8	233.9	4 625.5
225	Knitting mills -----	E4		8	4	0.5	3.7	0.4	0.8	2.7	5.0	2.1	7.4	(D)	(NA)	(NA)
24	Lumber and wood products --	E1		61	11	0.7	8.8	0.5	1.0	5.9	17.6	17.8	35.5	0.7	0.6	7.8
25	Furniture and fixtures -----	-		69	22	2.3	26.0	1.8	3.4	19.0	48.2	48.6	95.6	2.2	(NA)	(NA)
251	Household furniture -----	E1		24	9	0.7	7.5	0.6	1.2	5.3	14.2	20.7	35.2	(D)	(NA)	(NA)
2514	Metal household	-		6	3	0.5	4.9	0.4	0.8	3.6	9.3	15.5	24.9	0.1	(NA)	(NA)
254	Partitions and fixtures -----	-		28	8	1.2	14.7	0.9	1.7	11.1	27.6	22.7	49.2	1.8	(NA)	(NA)
2542	Metal partitions and	-		9	7	1.0	12.1	0.8	1.5	9.3	23.4	19.9	42.2	(D)	(NA)	(NA)
26	fixtures -----	-		9	7	1.0	12.1	0.8	1.5	9.3	23.4	19.9	42.2	(D)	(NA)	(NA)
26	Paper and allied products ---	-		71	46	3.9	47.8	3.0	5.9	32.2	95.7	141.0	237.0	(D)	4.0	62.1
264	Miscellaneous converted	-		33	17	1.3	15.4	1.0	2.0	10.3	31.1	40.0	70.8	(D)	1.0	15.1
2642	paper products -----	E1		4	3	0.5	6.4	0.4	0.8	4.1	9.5	9.7	19.1	(D)	(NA)	(NA)
2653	Envelopes -----	-		18	14	1.4	17.1	1.0	2.0	11.1	34.0	48.9	82.9	2.2	(NA)	(NA)
	Corrugated and solid	-		18	14	1.4	17.1	1.0	2.0	11.1	34.0	48.9	82.9	2.2	(NA)	(NA)
	fiber boxes -----	-		18	14	1.4	17.1	1.0	2.0	11.1	34.0	48.9	82.9	2.2	(NA)	(NA)
27	Printing and publishing -----	-		462	92	11.5	175.5	6.4	12.3	85.4	336.2	193.4	525.2	14.3	13.3	318.0
2711	Newspapers -----	-		27	8	3.7	56.6	1.3	2.4	21.7	113.1	46.0	159.0	3.0	(NA)	(NA)
2751	Commercial printing,	-		159	18	1.6	19.7	1.3	2.4	13.0	36.8	27.7	64.5	1.8	(NA)	(NA)
	letterpress -----	E1		159	18	1.6	19.7	1.3	2.4	13.0	36.8	27.7	64.5	1.8	(NA)	(NA)
2752	Commercial printing,	-		122	27	2.2	33.3	1.5	2.9	21.0	59.3	45.0	103.0	6.0	(NA)	(NA)
	lithographic -----	-		122	27	2.2	33.3	1.5	2.9	21.0	59.3	45.0	103.0	6.0	(NA)	(NA)
28	Chemicals and allied	-		176	63	7.2	109.2	4.1	8.4	53.6	384.2	477.9	858.3	26.2	8.7	258.6
284	products -----	-		176	63	7.2	109.2	4.1	8.4	53.6	384.2	477.9	858.3	26.2	8.7	258.6
	Soaps, cleaners, and toilet	-		36	8	0.6	8.5	0.3	0.7	3.6	51.3	54.9	104.3	(D)	(NA)	(NA)
	goods -----	-		36	8	0.6	8.5	0.3	0.7	3.6	51.3	54.9	104.3	(D)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Cuyahoga County—Con.														
28	Chemicals and allied products—Con.														
2851	Paints and allied products-----	-	33	16	2.1	31.6	1.1	2.5	16.0	101.1	128.7	229.1	2.8	(NA)	(NA)
2899	Chemical preparations, n.e.c.-----	-	44	10	1.2	19.2	0.7	1.3	8.2	80.5	83.7	164.5	(D)	(NA)	(NA)
29	Petroleum and coal products -	-	33	19	1.6	26.9	0.6	1.3	7.9	53.7	102.7	156.5	(D)	(NA)	(NA)
295	Paving and roofing materials-----	-	15	8	1.0	17.9	0.4	0.8	4.1	33.2	36.5	69.2	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products-----	E1	108	45	3.8	41.4	3.0	5.9	26.8	98.9	93.8	189.1	6.4	3.9	83.5
3079	Miscellaneous plastics products-----	E1	91	39	3.1	32.7	2.4	4.7	20.6	81.9	79.6	160.0	5.6	(NA)	(NA)
32	Stone, clay, and glass products-----	-	104	37	3.2	43.6	2.5	4.8	30.5	101.1	85.3	185.3	6.1	3.1	61.2
327	Concrete, gypsum, and plaster products-----	-	32	13	0.7	10.8	0.5	1.0	7.7	27.8	38.6	65.8	1.7	0.8	21.2
329	Miscellaneous nonmetallic mineral products-----	-	42	17	1.4	18.2	1.0	1.9	11.8	42.8	32.6	75.2	2.9	(NA)	(NA)
3299	Nonmetallic mineral products, n.e.c.-----	-	10	5	0.5	5.2	0.4	0.6	3.9	11.2	7.0	18.5	(D)	(NA)	(NA)
33	Primary metal industries-----	-	182	91	28.0	538.8	22.8	48.8	419.5	1 265.6	1 438.4	2 695.0	72.1	28.5	646.6
3341	Secondary nonferrous metals-----	-	18	13	1.2	18.0	0.9	1.9	12.6	43.5	189.6	232.6	(D)	(NA)	(NA)
3351	Copper rolling and drawing-----	-	4	4	1.2	19.6	0.9	1.9	15.2	16.9	100.6	118.7	(D)	(NA)	(NA)
339	Miscellaneous primary metal products-----	E2	46	17	0.9	11.9	0.7	1.4	8.3	25.8	15.1	40.2	(D)	(NA)	(NA)
34	Fabricated metal products---	-	644	292	38.5	605.0	29.8	61.8	435.4	1 212.7	1 235.5	2 427.4	64.5	37.0	736.6
341	Metal cans and shipping containers-----	-	13	7	1.0	14.0	0.8	1.6	9.8	35.6	49.6	87.3	(D)	(NA)	(NA)
3412	Metal barrels, drums, and pails-----	-	10	5	0.5	6.8	0.3	0.7	4.2	11.5	21.3	34.6	0.7	(NA)	(NA)
342	Cutlery, hand tools, and hardware-----	-	29	18	1.1	13.0	0.9	1.7	8.8	28.6	28.1	56.2	(D)	1.5	28.3
3429	Hardware, n.e.c.-----	-	15	11	0.7	8.9	0.6	1.1	6.0	18.9	20.9	39.2	(D)	(NA)	(NA)
343	Plumbing and heating, except electric-----	-	21	11	1.3	19.7	0.9	1.8	11.1	40.7	36.5	76.9	1.7	(NA)	(NA)
3432	Plumbing fittings and brass goods-----	-	11	6	0.7	7.6	0.5	1.0	5.3	16.3	20.5	36.3	(D)	(NA)	(NA)
344	Fabricated structural metal products-----	-	107	43	4.7	56.8	3.2	6.3	35.8	121.3	164.8	286.5	4.8	5.0	87.2
3444	Sheet metal work-----	-	32	14	1.8	17.9	1.1	2.3	11.9	44.2	68.7	113.1	(D)	(NA)	(NA)
345	Screw machine products, bolts, etc.-----	-	97	55	5.3	78.1	4.1	8.6	53.0	153.2	145.6	307.2	9.9	6.6	138.5
346	Metal forgings and stampings-----	-	124	68	16.2	311.9	13.3	28.8	244.7	597.7	612.3	1 190.3	36.4	14.6	320.2
3471	Plating and polishing-----	E1	104	28	1.5	15.9	1.2	2.3	10.8	32.7	13.1	45.8	1.7	(NA)	(NA)
349	Miscellaneous fabricated metal products-----	-	117	50	5.2	67.8	3.9	7.6	42.3	159.0	159.2	303.6	4.9	4.5	76.5
35	Machinery, except electrical---	-	877	260	35.3	546.3	25.1	51.4	353.6	1 148.9	742.2	1 880.9	50.6	36.4	757.6
353	Construction and related machinery-----	-	48	30	6.1	99.8	4.2	8.7	62.6	267.9	249.2	509.4	6.8	5.9	128.4
3535	Conveyors and conveying equipment---	-	7	5	0.6	8.4	0.4	0.9	5.8	27.4	11.7	38.8	(D)	(NA)	(NA)
354	Metalworking machinery---	-	312	97	12.7	197.1	9.0	18.7	125.7	393.3	182.6	576.8	14.6	12.2	230.0
3545	Machine tool accessories-----	-	51	20	3.3	51.0	2.6	5.2	34.0	106.9	34.8	140.7	3.9	(NA)	(NA)
3546	Power driven hand tools-----	-	6	5	0.6	9.4	0.4	0.8	5.3	24.9	6.8	31.3	1.6	(NA)	(NA)
355	Special industry machinery---	-	55	30	4.1	64.5	2.7	5.5	39.6	118.7	97.1	211.4	6.0	(NA)	(NA)
3559	Special industry machinery, n.e.c.-----	-	38	24	3.3	52.2	2.3	4.6	33.7	93.2	81.4	171.1	5.6	(NA)	(NA)
356	General industrial machinery-----	-	95	31	3.5	52.1	2.3	4.8	31.6	110.2	70.6	181.8	8.0	4.1	75.4
3569	General industrial machinery, n.e.c.-----	-	24	5	0.7	10.7	0.5	1.0	6.2	17.9	17.4	35.5	1.2	(NA)	(NA)
359	Miscellaneous machinery, except electrical-----	-	334	56	6.7	105.3	5.2	10.8	75.9	204.9	108.4	310.4	13.7	5.7	122.9
36	Electric and electronic equipment-----	-	166	96	20.1	293.5	13.7	26.8	174.7	709.0	625.1	1 317.5	45.0	19.6	398.1
361	Electric distributing equipment-----	E1	15	7	0.7	7.0	0.5	0.9	4.3	12.0	13.6	24.8	(D)	(NA)	(NA)
362	Electrical industrial apparatus-----	-	39	25	6.6	131.4	4.3	9.1	79.8	286.8	241.4	522.3	28.8	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972		
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Cuyahoga County—Con.														
36	Electric and electronic equipment—Con.														
366	Communication equipment -	-	12	7	1.4	12.8	1.0	1.7	7.9	26.5	54.1	75.4	(D)	0.5	8.7
367	Electronic components and accessories -----	-	24	9	0.7	7.4	0.5	1.0	4.8	29.8	24.5	54.4	0.5	(NA)	(NA)
37	Transportation equipment ---	-	86	35	25.8	552.7	20.2	46.3	423.6	963.4	1 564.1	2 511.6	(D)	30.3	739.8
38	Instruments and related products -----	-	82	31	3.7	45.2	2.2	4.3	21.0	102.4	49.3	147.4	2.9	3.2	59.1
39	Miscellaneous manufacturing industries -----	E1	132	32	2.5	27.5	1.8	3.4	16.6	56.9	46.8	103.6	1.8	2.6	42.3
399	Miscellaneous manufactures -----	-	75	24	1.8	21.0	1.4	2.6	12.6	43.9	31.3	75.3	1.4	1.8	29.8
3991	Brooms and brushes -----	-	13	8	0.9	10.6	0.7	1.2	6.2	22.1	18.6	40.2	0.8	(NA)	(NA)
3993	Signs and advertising displays -----	E1	29	13	0.6	7.7	0.5	1.0	4.8	15.2	8.2	23.4	0.4	(NA)	(NA)
-	Administrative and auxiliary --	-	143	83	21.4	455.3	-	-	-	-	-	-	-	(NA)	(NA)
	Darke County -----	-	78	27	3.7	41.9	3.1	5.9	32.0	116.9	129.6	243.6	6.6	2.9	58.6
	Defiance County -----	-	54	22	7.8	142.0	6.4	13.1	114.9	330.7	241.4	565.6	(D)	7.3	154.4
20	Food and kindred products --	-	7	4	0.6	7.8	0.3	0.6	4.5	13.1	52.2	65.1	1.1	0.6	8.0
	Delaware County-----	-	63	28	4.4	54.5	3.2	8.2	36.0	160.6	176.0	331.0	4.2	4.3	94.9
35	Machinery, except electrical --	-	17	4	0.5	5.7	0.4	0.8	4.6	12.8	6.9	18.8	(D)	0.7	16.4
	Erie County -----	-	137	58	12.0	193.5	9.1	18.7	140.5	419.7	501.2	916.3	34.9	11.7	254.6
20	Food and kindred products --	E1	16	8	0.8	10.5	0.6	1.2	7.0	38.6	107.4	145.6	0.8	0.8	10.1
201	Meat products -----	-	4	3	0.5	8.0	0.4	0.9	5.7	32.5	94.3	126.5	(D)	(NA)	(NA)
26	Paper and allied products ---	-	8	6	0.8	11.2	0.7	1.3	8.3	18.8	27.1	45.1	(D)	0.8	15.7
30	Rubber and miscellaneous plastics products -----	-	9	5	1.1	12.8	0.8	1.7	9.8	25.9	24.5	50.1	(D)	1.2	19.5
33	Primary metal industries -----	-	6	5	0.9	12.9	0.7	1.5	9.9	28.5	32.6	60.0	4.2	1.2	19.0
35	Machinery, except electrical --	-	27	11	3.7	67.0	2.8	5.6	47.9	116.9	58.7	174.0	(D)	3.0	64.2
	Fairfield County -----	-	101	46	11.7	138.7	8.2	16.3	89.6	288.8	217.9	495.9	20.3	10.9	154.0
20	Food and kindred products --	-	13	3	0.5	6.0	0.3	0.7	3.9	23.1	24.6	46.6	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	14	9	1.9	20.7	1.1	2.3	11.7	57.3	40.4	96.9	1.3	(NA)	(NA)
35	Machinery, except electrical --	E1	23	8	0.8	10.4	0.7	1.4	7.7	18.7	12.5	30.5	2.1	2.2	39.0
36	Electric and electronic equipment -----	-	6	5	1.5	13.6	1.2	2.3	9.3	34.3	29.6	60.6	1.9	1.1	10.0
	Fayette County -----	-	40	17	2.8	33.9	2.0	4.0	22.6	84.5	112.9	194.8	3.5	2.2	39.4
20	Food and kindred products --	-	6	4	0.8	9.9	0.4	0.8	5.0	17.3	43.8	61.3	0.3	0.8	11.4
	Franklin County-----	-	1 095	396	74.1	1 110.9	47.0	91.5	634.4	2 292.0	2 150.8	4 432.2	124.3	80.3	1 580.6
205	Bakery products -----	-	16	11	1.5	19.3	1.2	2.4	14.8	47.1	45.8	92.9	1.4	1.7	25.3
25	Furniture and fixtures -----	-	24	9	1.2	14.9	1.0	1.8	10.2	23.2	22.3	45.2	0.4	(NA)	(NA)
251	Household furniture -----	E1	9	3	0.5	5.4	0.4	0.8	4.2	6.8	11.4	18.4	(Z)	(NA)	(NA)
26	Paper and allied products ---	E1	24	11	0.7	8.5	0.5	1.1	5.8	17.3	24.9	42.1	0.6	1.3	20.0
27	Printing and publishing -----	-	206	46	6.2	80.2	3.3	6.1	43.4	218.8	102.2	320.9	6.1	6.2	122.1
2721	Periodicals-----	-	17	5	0.5	4.5	(Z)	0.1	0.4	26.9	19.6	46.7	(D)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Franklin County—Con.														
27	Printing and publishing—Con.														
2751	Commercial printing, letterpress -----	E1	66	7	0.6	6.2	0.4	0.8	4.3	11.1	7.9	19.0	0.7	(NA)	(NA)
2752	Commercial printing, lithographic -----	-	66	17	1.4	19.0	1.0	1.9	13.2	29.9	21.4	51.5	2.2	(NA)	(NA)
3079	Miscellaneous plastics products-----	-	38	17	1.9	25.9	1.4	3.0	17.7	85.2	74.5	137.1	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	59	26	4.4	61.0	3.2	6.2	38.0	157.4	76.8	233.6	9.2	5.1	120.4
327	Concrete, gypsum, and plaster products -----	E1	25	12	0.7	10.2	0.4	0.9	5.1	19.1	21.7	41.0	1.4	(NA)	(NA)
33	Primary metal industries -----	-	27	12	3.3	45.8	2.7	4.9	37.0	73.8	105.0	180.7	5.7	3.1	43.7
34	Fabricated metal products ---	-	114	47	9.4	161.5	7.5	15.2	124.9	372.8	266.2	632.6	39.7	8.8	219.2
3441	Fabricated structural metal -----	-	10	4	0.5	6.1	0.3	0.7	3.9	10.7	10.3	20.7	0.6	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	26	7	0.8	9.9	0.6	1.2	6.3	23.4	19.3	43.0	0.5	(NA)	(NA)
37	Transportation equipment ---	-	31	10	5.1	86.9	2.7	5.5	42.7	156.6	62.9	245.0	(D)	(NA)	(NA)
3714	Motor vehicle parts and accessories -----	-	11	3	1.1	15.2	0.9	1.6	11.9	32.1	21.0	53.2	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	53	14	1.3	14.8	0.9	1.8	8.7	26.9	18.6	45.2	1.4	(NA)	(NA)
-	Administrative and auxiliary --	-	51	29	5.8	119.6	-	-	-	-	-	-	-	(NA)	(NA)
	Fulton County -----	-	103	47	6.9	76.1	5.6	10.6	53.6	190.7	291.0	479.2	10.3	5.7	94.7
20	Food and kindred products --	-	13	6	1.0	13.7	0.8	1.6	9.2	54.0	118.7	172.5	1.3	1.0	25.1
25	Furniture and fixtures -----	-	8	5	1.2	10.8	1.0	1.9	8.0	22.0	16.9	38.6	(D)	0.6	11.1
34	Fabricated metal products ---	-	14	10	0.9	8.6	0.7	1.3	6.6	23.9	33.3	56.7	(D)	1.1	18.5
346	Metal forgings and stampings -----	-	6	5	0.5	4.6	0.4	0.7	3.7	9.4	12.7	21.7	0.4	(NA)	(NA)
35	Machinery, except electrical --	-	10	6	1.1	12.1	0.9	1.8	8.9	24.1	29.8	53.1	3.0	0.6	5.5
37	Transportation equipment ---	-	5	3	0.7	6.0	0.6	1.2	4.5	13.2	23.6	36.8	(D)	0.8	5.9
	Gallia County -----	-	24	8	1.0	11.6	0.8	1.6	8.2	32.2	38.1	67.6	2.5	0.7	13.1
	Geauga County -----	-	151	50	8.5	76.0	4.6	8.7	43.8	147.6	180.4	304.7	6.6	4.7	70.0
30	Rubber and miscellaneous plastics products -----	-	24	14	3.3	37.0	2.5	4.8	23.7	58.6	76.5	133.2	2.5	2.8	39.0
3069	Fabricated rubber products, n.e.c. -----	-	8	6	2.1	24.7	1.5	2.9	15.0	37.4	53.8	90.7	1.4	(NA)	(NA)
3079	Miscellaneous plastics products-----	-	16	8	1.2	12.3	1.0	1.9	8.8	21.2	22.7	42.5	1.1	(NA)	(NA)
35	Machinery, except electrical --	-	29	7	0.5	6.0	0.4	0.8	4.2	15.8	10.7	25.2	0.6	(NA)	(NA)
	Greene County -----	-	104	40	4.0	53.3	2.9	5.7	34.7	112.2	130.2	241.6	5.6	3.4	53.0
	Guernsey County -----	-	55	26	5.2	56.0	3.4	6.3	32.9	147.6	187.7	334.5	5.9	4.4	70.6
30	Rubber and miscellaneous plastics products -----	-	15	10	0.8	7.9	0.6	1.2	5.3	12.0	23.0	33.8	0.9	0.6	8.2
3079	Miscellaneous plastics products-----	-	15	10	0.8	7.9	0.6	1.2	5.3	12.0	23.0	33.8	0.9	(NA)	(NA)
	Hamilton County -----	-	1 709	703	139.6	2 169.0	82.6	169.0	1 120.4	5 043.1	5 376.1	10 392.7	267.6	137.4	3 117.0
20	Food and kindred products --	-	128	70	13.6	209.3	8.2	17.3	122.2	585.5	1 028.7	1 612.1	22.4	15.4	425.9
2011	Meat packing plants -----	-	13	6	1.3	24.1	1.0	1.9	15.7	48.7	170.2	219.7	(D)	(NA)	(NA)
2013	Sausages and other prepared meats -----	-	9	6	0.8	13.8	0.6	1.4	10.6	19.3	78.0	97.4	1.3	(NA)	(NA)
2086	Bottled and canned soft drinks -----	-	6	4	1.3	17.8	0.4	0.8	4.8	43.2	38.5	81.1	(D)	(NA)	(NA)
22	Textile mill products -----	-	11	4	0.7	6.8	0.5	0.9	4.3	19.2	14.2	32.9	0.8	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expendi- tures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Hamilton County—Con.														
24	Lumber and wood products --	-	40	12	1.0	9.2	0.8	1.5	6.1	17.3	17.8	35.0	0.5	(NA)	(NA)
249	Miscellaneous wood products -----	-	16	5	0.5	4.8	0.4	0.8	3.2	10.3	8.9	19.2	0.3	(NA)	(NA)
251	Household furniture -----	-	20	8	1.0	10.1	0.8	1.4	6.7	21.5	22.7	44.2	0.4	1.8	24.4
2515	Mattresses and bedsprings -----	-	7	5	0.5	5.1	0.3	0.7	3.0	12.1	16.0	28.2	(D)	(NA)	(NA)
26	Paper and allied products ---	E1	68	42	4.9	63.1	3.9	7.9	47.1	128.3	164.2	290.2	9.3	4.6	81.1
264	Miscellaneous converted paper products -----	E4	25	14	1.0	10.9	0.7	1.3	6.7	23.0	24.0	46.9	1.3	0.9	14.5
265	Paperboard containers and boxes -----	-	36	23	3.2	39.5	2.6	5.2	30.0	81.2	109.7	188.9	6.4	2.9	51.7
2653	Corrugated and solid fiber boxes -----	-	13	7	0.9	13.6	0.7	1.4	9.2	27.3	36.0	63.3	1.3	(NA)	(NA)
27	Printing and publishing -----	-	304	89	12.1	151.3	7.3	13.6	89.7	341.9	202.8	542.1	15.7	13.1	230.1
2752	Commercial printing, lithographic -----	-	94	25	3.2	42.3	2.5	4.5	30.8	82.3	50.3	132.7	4.0	(NA)	(NA)
279	Printing trade services -----	-	32	12	0.6	10.4	0.4	0.8	7.4	16.2	4.1	20.0	0.8	(NA)	(NA)
28	Chemicals and allied products -----	-	98	47	12.6	203.6	7.4	14.8	110.7	1 261.9	897.2	2 150.7	52.4	(NA)	(NA)
2893	Printing ink -----	-	12	7	0.6	7.6	0.3	0.6	4.4	18.2	25.5	43.4	(D)	(NA)	(NA)
29	Petroleum and coal products --	-	18	5	1.4	21.1	1.1	2.4	16.5	55.8	287.5	339.2	2.8	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	57	23	3.4	46.8	2.7	5.5	33.0	96.5	95.5	192.6	(D)	4.0	73.3
32	Stone, clay, and glass products -----	-	59	18	1.2	14.2	0.8	1.6	7.8	30.9	34.2	64.8	2.1	1.3	24.9
33	Primary metal industries -----	-	47	28	3.9	53.0	3.1	6.3	38.2	98.0	97.2	190.2	5.1	3.4	61.4
336	Nonferrous foundries -----	-	17	11	0.9	12.0	0.8	1.5	9.6	26.5	19.5	45.2	1.1	(NA)	(NA)
3398	Metal heat treating -----	-	10	6	0.5	4.2	0.4	0.8	2.8	8.5	3.8	12.5	1.4	(NA)	(NA)
34	Fabricated metal products ---	-	196	92	11.6	152.9	8.9	17.6	101.5	321.9	316.6	639.7	18.8	11.8	198.8
344	Fabricated structural metal products -----	-	55	30	4.0	53.5	3.0	6.0	34.3	109.2	103.7	212.5	6.2	3.9	63.9
347	Metal services, n.e.c. -----	-	37	11	0.9	9.3	0.7	1.4	6.5	16.5	12.8	29.3	1.6	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	50	21	3.8	49.6	2.9	5.6	32.6	109.0	95.0	206.3	7.2	3.7	70.9
3494	Valves and pipe fittings --	-	12	8	2.8	40.4	2.2	4.1	26.7	90.5	78.5	171.6	6.6	(NA)	(NA)
35	Machinery, except electrical --	-	284	99	20.4	285.9	12.7	24.8	157.0	534.0	361.0	899.8	23.9	15.3	250.9
354	Metalworking machinery -----	-	81	30	10.1	157.4	5.4	10.9	79.3	263.1	138.9	409.7	12.2	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures -----	E1	42	6	0.5	8.0	0.4	0.9	5.7	11.3	4.3	15.7	0.6	(NA)	(NA)
356	General industrial machinery -----	-	38	17	4.2	49.1	3.1	5.1	29.5	116.6	105.3	223.5	6.4	(NA)	(NA)
3569	General industrial machinery, n.e.c. -----	-	8	4	0.5	6.6	0.3	0.6	3.1	14.9	10.5	25.9	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E1	92	18	1.6	19.8	1.2	2.4	13.1	38.4	19.7	57.6	2.4	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E1	92	18	1.6	19.8	1.2	2.4	13.1	38.4	19.7	57.6	2.4	(NA)	(NA)
364	Electric lighting and wiring equipment -----	-	13	9	1.5	16.5	1.0	1.9	9.0	32.7	31.1	62.5	1.1	(NA)	(NA)
3993	Signs and advertising displays -----	E2	24	8	0.5	5.8	0.3	0.7	3.3	11.0	6.4	17.4	0.4	(NA)	(NA)
-	Administrative and auxiliary --	-	83	45	13.2	254.6	-	-	-	-	-	-	-	(NA)	(NA)
	Hancock County -----	-	92	42	8.9	129.3	5.7	11.1	67.2	300.5	441.4	739.4	19.4	7.6	164.2
20	Food and kindred products --	-	16	8	0.8	8.5	0.5	1.0	5.0	17.1	92.6	111.3	1.1	0.7	17.5
30	Rubber and miscellaneous plastics products -----	-	12	9	2.6	35.1	1.7	3.4	21.5	55.9	136.5	188.9	6.5	2.5	62.4
	Hardin County -----	-	51	21	3.2	40.6	2.5	4.6	29.7	119.5	139.2	262.2	5.5	3.1	63.2

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
	Harrison County -----	-	23	6	1.0	7.7	0.9	1.5	6.4	12.4	8.8	20.9	0.7	1.1	10.0
	Henry County -----	-	55	19	3.9	46.5	3.2	6.4	35.8	206.7	274.1	482.2	5.0	3.6	120.5
	Highland County -----	-	37	20	3.2	29.9	2.8	5.4	24.8	64.3	67.2	129.9	3.3	2.8	42.4
34	Fabricated metal products ---	-	6	3	0.5	4.3	0.4	0.7	3.8	8.3	6.6	14.8	0.3	(NA)	(NA)
	Hocking County -----	-	34	12	2.3	26.7	2.0	4.0	20.6	61.8	48.1	110.3	2.5	2.5	42.8
32	Stone, clay, and glass products -----	-	5	4	0.8	11.3	0.7	1.5	9.3	28.3	15.1	43.3	0.9	0.8	19.0
	Holmes County -----	-	74	31	2.6	26.8	2.3	4.5	20.7	69.3	67.4	155.5	6.2	2.1	40.1
24	Lumber and wood products --	E1	28	11	0.7	6.6	0.6	1.2	5.0	16.7	26.1	42.7	1.8	0.6	11.2
30	Rubber and miscellaneous plastics products -----	-	6	4	0.8	8.4	0.7	1.4	7.1	25.4	14.6	40.2	(D)	0.5	10.6
	Huron County -----	-	102	50	8.4	97.3	6.6	13.5	69.9	234.2	318.6	548.3	10.2	7.9	168.2
20	Food and kindred products --	-	7	5	0.8	7.7	0.6	1.2	5.8	57.3	107.9	180.8	(D)	0.7	7.5
30	Rubber and miscellaneous plastics products -----	-	8	7	0.8	8.5	0.6	1.2	6.0	15.7	19.7	37.3	1.1	1.0	17.5
3069	Fabricated rubber products, n.e.c. -----	-	4	3	0.5	5.0	0.4	0.7	3.5	6.4	4.3	12.0	(D)	(NA)	(NA)
35	Machinery, except electrical --	-	17	5	1.1	13.4	1.0	2.2	10.7	27.0	69.4	93.8	1.0	(NA)	(NA)
37	Transportation equipment ---	-	7	4	1.2	16.1	1.0	2.1	13.0	25.8	42.8	70.7	(D)	1.0	11.7
38	Instruments and related products -----	-	5	3	0.5	3.2	0.4	0.8	2.3	5.4	3.5	8.9	0.1	(NA)	(NA)
	Jackson County -----	-	54	18	2.7	25.7	2.2	4.2	18.7	80.8	108.5	170.3	4.4	1.8	34.3
	Jefferson County -----	-	68	28	7.9	147.4	6.2	11.9	113.6	400.6	657.4	1 058.9	21.2	9.3	263.7
	Knox County -----	-	42	17	3.0	40.4	2.0	4.2	24.3	103.0	107.9	203.8	4.2	4.1	74.2
	Lake County -----	-	486	171	25.0	361.8	16.0	31.6	197.1	735.0	650.9	1 379.9	57.2	23.6	418.1
27	Printing and publishing -----	E2	30	4	0.5	5.3	0.3	0.5	2.3	10.3	6.0	16.3	0.4	0.8	6.4
28	Chemicals and allied products -----	-	22	11	2.0	32.0	1.4	2.8	20.5	109.6	163.6	272.8	27.2	(NA)	(NA)
282	Plastics materials and synthetics -----	-	3	3	0.9	13.6	0.7	1.5	9.6	45.9	50.9	108.0	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	23	13	1.6	18.2	1.2	2.5	12.7	33.1	33.9	66.8	1.6	1.4	24.4
32	Stone, clay, and glass products -----	E2	20	4	0.5	6.3	0.4	0.7	4.1	15.0	12.9	27.6	0.6	0.5	15.3
33	Primary metal industries -----	E1	15	9	0.7	9.3	0.5	1.0	5.9	23.2	22.3	45.2	0.9	(NA)	(NA)
34	Fabricated metal products ---	-	80	40	4.2	54.6	3.2	6.5	37.6	133.4	111.9	238.4	7.2	3.1	68.1
344	Fabricated structural metal products -----	-	13	9	0.6	8.1	0.5	1.0	5.7	23.8	25.3	48.1	0.8	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	15	5	1.0	14.4	0.7	1.4	8.7	39.4	38.8	75.0	2.8	(NA)	(NA)
35	Machinery, except electrical --	-	197	48	7.3	118.3	5.0	9.7	71.5	204.5	175.3	381.2	8.3	4.9	83.9
354	Metalworking machinery ---	E1	47	11	1.2	18.3	0.9	1.8	12.2	33.6	13.2	47.0	1.3	1.0	17.5
359	Miscellaneous machinery, except electrical -----	E1	108	16	1.0	12.9	0.8	1.5	8.9	22.6	15.6	38.2	1.3	(NA)	(NA)
36	Electric and electronic equipment -----	E1	21	8	0.8	9.8	0.5	1.0	5.2	23.1	12.0	32.7	1.5	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	14	6	0.9	8.9	0.8	1.4	6.3	16.6	9.3	25.7	0.2	0.6	9.0

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Lake County—Con.														
—	Administrative and auxiliary --	—	11	10	1.3	26.1	—	—	—	—	—	—	—	(NA)	(NA)
	Licking County -----		133	46	10.6	152.2	8.1	15.4	107.6	375.0	346.0	712.2	26.9	10.1	212.4
26	Paper and allied products ---	—	4	4	0.5	5.4	0.4	0.8	3.9	13.3	19.8	33.3	0.7	0.5	6.4
30	Rubber and miscellaneous plastics products -----	—	13	7	0.9	9.0	0.8	1.5	6.7	28.7	23.0	51.2	2.6	0.5	13.5
34	Fabricated metal products ---	—	11	6	0.6	6.8	0.5	0.8	4.3	12.2	12.9	25.8	1.4	(NA)	(NA)
	Logan County -----		54	20	3.8	45.0	3.1	6.0	33.5	86.9	76.8	162.3	8.0	3.0	52.4
	Lorain County (Coextensive with Lorain-Elyria, Ohio, SMSA; see table 6.)														
	Lucas County -----		767	272	59.9	1 007.2	39.5	76.5	599.2	2 225.9	3 780.4	5 971.8	133.0	50.2	1 220.5
20	Food and kindred products --	—	32	12	2.1	31.0	1.4	3.0	20.8	136.5	242.7	378.2	6.6	2.6	86.5
205	Bakery products -----	—	5	4	0.5	6.2	0.3	0.5	3.7	15.5	13.4	28.9	0.7	0.7	13.1
24	Lumber and wood products --	—	23	5	0.5	7.0	0.3	0.6	3.5	14.8	18.6	32.8	0.3	0.6	11.8
26	Paper and allied products ---	E1	17	11	1.0	10.8	0.7	1.4	7.4	26.6	37.7	64.0	1.7	0.9	13.5
27	Printing and publishing -----	—	109	15	2.0	31.3	1.2	2.2	17.5	89.4	22.2	111.3	3.5	2.1	37.4
28	Chemicals and allied products -----	—	28	12	1.5	27.0	1.1	2.1	16.5	112.3	166.6	272.4	2.6	1.6	72.9
2911	Petroleum refining -----	—	3	3	1.3	30.5	0.9	1.9	19.6	310.4	1 505.5	1 801.8	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	E1	30	12	0.7	7.9	0.6	1.1	5.4	17.5	12.1	29.6	0.6	0.7	12.6
3079	Miscellaneous plastics products -----	E2	27	9	0.5	5.1	0.4	0.8	3.6	11.1	9.4	20.5	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	—	42	14	5.4	88.9	4.5	8.8	72.7	185.8	128.2	309.7	21.1	5.2	146.8
33	Primary metal industries -----	—	31	22	4.8	72.8	4.0	7.8	58.0	129.3	275.1	404.9	11.2	4.9	91.8
331	Blast furnace and basic steel products -----	—	7	7	1.3	21.8	1.0	2.2	17.7	26.0	92.1	122.0	(D)	1.2	26.9
34	Fabricated metal products ---	—	112	51	6.6	103.9	5.4	10.2	76.9	219.9	297.0	516.9	15.9	5.1	85.6
344	Fabricated structural metal products -----	—	25	9	1.1	18.1	0.8	1.5	12.3	41.9	98.5	138.7	2.6	1.0	16.1
346	Metal forgings and stampings -----	—	31	24	4.0	65.4	3.3	6.4	49.5	136.1	149.0	287.0	11.3	2.9	49.8
3465	Automotive stampings -----	—	14	13	2.6	47.0	2.2	4.4	36.0	103.9	115.8	220.6	10.2	(NA)	(NA)
348	Miscellaneous fabricated metal products -----	—	17	9	0.7	9.2	0.5	1.0	6.5	15.3	23.6	38.8	0.8	(NA)	(NA)
35	Machinery, except electrical --	—	162	40	5.2	84.8	3.3	6.7	49.4	187.4	92.6	283.7	5.4	7.2	118.7
356	General industrial machinery -----	—	27	8	2.3	38.0	1.2	2.4	18.8	66.5	45.6	112.3	2.4	2.4	43.8
37	Transportation equipment ---	—	28	16	13.8	244.7	11.7	22.0	196.6	532.0	773.4	1 302.8	25.0	12.7	255.5
371	Motor vehicles and equipment -----	—	20	12	12.8	226.1	11.0	20.7	185.2	497.3	756.2	1 249.3	(D)	11.3	230.3
39	Miscellaneous manufacturing industries -----	—	25	6	0.8	7.1	0.7	1.3	4.6	23.6	14.9	37.2	0.4	1.1	13.5
—	Administrative and auxiliary --	—	37	26	8.2	169.9	—	—	—	—	—	—	—	(NA)	(NA)
	Madison County -----		28	15	1.5	14.7	1.2	2.2	10.6	41.5	39.4	80.9	0.8	2.3	40.3
	Mahoning County -----		357	136	33.2	521.2	25.6	47.4	376.2	883.7	1 461.1	2 358.0	39.0	36.2	695.8
20	Food and kindred products --	E1	25	11	1.0	13.9	0.5	1.1	5.8	34.0	49.8	83.9	2.9	1.1	18.2

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Mahoning County—Con.														
23	Apparel and other textile products -----	-	10	5	0.7	4.4	0.7	1.0	2.4	9.6	8.8	18.5	(D)	(NA)	(NA)
33	Primary metal industries -----	-	21	16	14.7	264.8	12.3	22.4	215.1	385.6	996.3	1 401.2	21.5	18.6	365.7
331	Blast furnace and basic steel products -----	-	7	7	13.8	253.8	11.6	21.0	207.1	358.9	974.2	1 354.1	[D]	(NA)	(NA)
34	Fabricated metal products ---	-	61	29	2.6	34.6	2.0	3.7	22.8	64.8	95.6	157.8	[D]	2.4	45.7
344	Fabricated structural metal products -----	E1	28	13	0.8	7.6	0.6	1.0	4.9	14.0	21.7	35.4	0.3	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	13	5	0.7	10.3	0.6	1.1	7.4	19.3	36.8	55.5	1.1	(NA)	(NA)
354	Metalworking machinery ---	-	35	12	1.7	26.7	1.5	2.7	22.5	86.0	71.2	151.6	1.1	(NA)	(NA)
-	Administrative and auxiliary --	-	7	4	1.2	24.7	-	-	-	-	-	-	-	(NA)	(NA)
	Marion County -----	-	100	44	12.1	173.0	9.4	16.9	124.7	446.6	634.9	1 096.8	21.7	10.2	244.0
20	Food and kindred products --	-	12	5	0.8	10.6	0.6	1.3	8.8	35.4	136.7	173.0	6.5	0.9	25.8
33	Primary metal industries -----	-	10	5	0.6	9.9	0.5	1.0	7.2	7.1	26.3	33.9	[D]	0.6	12.4
34	Fabricated metal products ---	-	10	7	1.0	13.7	0.8	1.6	10.6	35.1	47.8	85.0	(D)	(NA)	(NA)
35	Machinery, except electrical --	-	26	7	5.6	84.9	4.5	7.5	65.3	179.4	225.3	412.8	4.4	4.1	78.1
	Medina County -----	-	195	77	7.8	87.4	5.8	11.3	54.2	193.4	231.6	420.4	13.5	6.6	107.3
27	Printing and publishing -----	E1	20	5	0.5	5.8	0.4	0.7	3.9	11.4	9.0	20.3	1.2	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	12	7	0.9	8.1	0.7	1.3	5.8	13.6	12.7	26.4	0.7	0.9	8.5
32	Stone, clay, and glass products -----	-	15	6	0.6	8.3	0.5	0.9	5.4	19.5	19.3	38.3	3.6	(NA)	(NA)
34	Fabricated metal products ---	-	32	12	1.7	18.0	1.4	2.8	13.1	32.7	49.6	77.6	2.6	1.2	18.7
346	Metal forgings and stampings -----	-	4	3	0.6	5.9	0.6	1.4	4.7	8.9	16.8	23.6	1.2	(NA)	(NA)
35	Machinery, except electrical --	-	37	11	0.9	9.3	0.7	1.5	6.1	28.2	17.2	43.9	1.7	(NA)	(NA)
36	Electric and electronic equipment -----	-	7	4	0.5	6.6	0.3	0.4	2.0	16.8	19.4	35.2	0.9	(NA)	(NA)
	Mercer County -----	-	63	20	5.3	60.7	4.3	8.2	47.1	120.0	193.5	310.4	4.6	4.9	89.3
	Miami County -----	-	177	80	15.0	189.1	10.0	20.6	114.9	388.9	474.1	847.3	16.9	12.4	217.3
20	Food and kindred products --	-	8	3	0.8	11.7	0.6	1.2	8.6	16.6	109.6	126.9	[D]	(NA)	(NA)
35	Machinery, except electrical --	-	46	17	4.1	54.3	2.8	5.7	34.7	120.0	81.7	193.4	4.7	2.8	67.7
355	Special industry machinery -	-	5	5	2.1	28.6	1.2	2.5	15.8	56.2	36.9	88.5	2.4	(NA)	(NA)
	Montgomery County -----	-	962	370	85.5	1 484.3	58.5	121.2	956.5	2 696.9	2 309.8	4 947.3	239.0	101.2	1 840.7
20	Food and kindred products --	E1	47	19	2.3	28.2	1.4	2.6	14.6	97.0	236.3	335.3	(D)	2.4	49.1
208	Beverages-----	E4	8	4	0.5	6.4	0.2	0.4	2.2	22.0	24.3	45.7	0.7	(NA)	(NA)
26	Paper and allied products ---	-	26	16	3.8	55.0	2.2	4.5	29.2	104.8	123.5	230.0	10.8	4.0	67.6
2621	Paper mills, except building paper -----	-	3	3	0.8	12.4	0.6	1.4	10.3	21.3	50.1	71.5	(D)	(NA)	(NA)
275	Commercial printing -----	-	72	16	4.6	69.7	3.8	7.3	58.0	94.5	92.3	187.3	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	37	14	1.8	25.0	1.1	2.2	13.6	52.6	55.2	105.8	4.8	1.6	33.2
33	Primary metal industries -----	-	30	21	2.1	29.0	1.8	3.6	22.3	59.6	48.3	108.0	2.6	2.5	34.5

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Montgomery County—Con.														
33	Primary metal industries—Con.														
3361	Aluminum foundries-----	-	9	6	0.5	6.2	0.4	0.8	4.9	10.6	9.3	19.9	(D)	(NA)	(NA)
35	Machinery, except electrical--	-	299	107	21.2	390.2	16.1	35.3	288.5	800.0	500.0	1 283.4	69.5	35.5	844.4
354	Metalworking machinery---	-	158	54	4.9	87.9	3.8	8.5	63.6	159.2	54.7	207.8	7.2	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures-----	-	119	44	3.4	63.3	2.8	6.6	49.0	100.8	35.5	132.9	5.1	(NA)	(NA)
355	Special industry machinery--	-	18	11	1.4	20.7	0.9	1.8	11.9	43.6	23.0	65.2	2.3	(NA)	(NA)
359	Miscellaneous machinery, except electrical-----	E1	67	22	1.1	15.4	0.9	2.4	11.0	28.4	11.7	38.9	(D)	1.0	18.0
3599	Machinery, except electrical, n.e.c.-----	E1	67	22	1.1	15.4	0.9	2.4	11.0	28.4	11.7	38.9	(D)	(NA)	(NA)
36	Electric and electronic equipment-----	-	44	18	9.8	140.8	7.2	14.2	92.8	261.9	285.0	539.5	23.9	2.7	47.5
372	Aircraft and parts-----	-	6	4	0.7	9.9	0.5	0.9	5.6	20.2	10.1	29.6	(D)	(NA)	(NA)
-	Administrative and auxiliary --	-	35	24	5.9	121.7	-	-	-	-	-	-	-	(NA)	(NA)
	Morrow County-----	-	23	7	1.5	17.8	1.1	2.3	12.1	38.0	33.5	71.1	1.0	1.5	26.0
	Muskingum County-----	-	98	41	8.1	91.6	6.6	12.7	66.9	219.7	277.0	495.8	15.2	9.2	149.0
20	Food and kindred products --	-	12	10	0.6	5.8	0.4	0.7	3.4	14.4	61.4	75.5	1.9	(NA)	(NA)
32	Stone, clay, and glass products-----	-	16	9	1.8	21.8	1.6	2.9	18.4	49.6	31.8	82.4	(D)	2.2	35.8
33	Primary metal industries-----	-	4	3	1.5	24.1	1.2	2.4	19.2	67.3	89.1	157.1	5.0	1.5	46.0
35	Machinery, except electrical--	E1	19	5	0.6	7.5	0.4	0.7	4.3	13.0	10.8	23.7	0.6	(NA)	(NA)
36	Electric and electronic equipment-----	-	5	4	2.1	19.0	1.7	3.5	14.7	45.5	55.2	99.1	(D)	2.2	20.8
	Ottawa County-----	-	75	21	3.0	40.2	2.4	4.6	29.8	75.0	118.8	193.7	5.6	3.2	54.0
	Paulding County-----	-	31	10	1.3	16.6	1.1	2.2	13.1	25.2	39.5	65.8	1.9	1.3	18.7
	Perry County-----	-	42	18	1.9	19.2	1.7	3.3	14.5	35.9	29.2	63.9	2.8	1.5	17.7
32	Stone, clay, and glass products-----	-	15	10	1.1	10.6	1.0	2.0	8.2	18.9	10.3	28.7	1.2	0.8	8.4
326	Pottery and related products-----	-	5	4	0.7	5.7	0.6	1.3	4.8	9.3	3.9	12.8	0.2	(NA)	(NA)
	Pickaway County-----	-	28	15	4.6	65.6	3.4	6.7	44.0	188.6	246.7	432.2	15.6	4.6	119.5
	Portage County-----	-	194	83	8.0	102.7	5.8	11.7	64.3	228.7	204.7	431.5	12.7	9.2	183.8
30	Rubber and miscellaneous plastics products-----	-	44	30	2.8	31.2	2.1	4.1	19.2	63.0	71.8	134.3	3.1	(NA)	(NA)
34	Fabricated metal products---	-	15	7	0.7	10.5	0.6	1.2	8.1	27.2	16.0	42.3	0.6	(NA)	(NA)
35	Machinery, except electrical--	-	67	17	1.5	21.8	1.1	2.3	14.9	41.9	30.7	71.1	5.0	(NA)	(NA)
	Preble County-----	-	59	16	2.0	21.5	1.5	2.9	14.3	62.9	61.6	123.7	3.3	1.7	32.0
	Putnam County-----	-	47	12	2.8	34.6	2.4	4.9	29.0	68.0	104.9	174.7	4.0	(D)	(D)
	Richland County (Coextensive with Mansfield, Ohio, SMSA; see table 6.)														
	Ross County-----	-	61	19	5.7	82.5	4.0	8.5	55.1	238.8	298.7	535.2	(D)	4.3	101.1
	Sandusky County-----	-	114	53	9.2	124.1	7.5	15.2	94.6	406.7	506.3	912.5	23.2	8.3	231.3
30	Rubber and miscellaneous plastics products-----	-	9	6	0.6	6.4	0.5	1.0	4.7	18.9	20.6	38.9	1.0	0.6	11.3
	Scioto County-----	-	69	17	2.9	44.9	2.1	4.1	31.3	106.4	196.7	316.8	10.2	5.2	96.0
	Seneca County-----	-	81	38	10.1	145.1	7.8	15.6	105.3	332.2	306.9	630.6	25.3	9.8	198.3

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977											1972		
			E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
				Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Seneca County—Con.															
32	Stone, clay, and glass products -----	-		13	6	1.5	19.8	1.0	1.8	12.4	45.8	37.4	83.8	3.9	1.7	41.4
33	Primary metal industries -----	-		9	5	1.8	29.4	1.4	2.9	22.6	41.9	55.4	96.7	(D)	1.6	24.0
35	Machinery, except electrical --	-		16	7	3.3	51.9	2.5	5.2	36.7	144.4	119.1	254.5	13.3	2.5	57.5
	Shelby County-----	-		89	42	8.9	86.8	6.9	13.8	63.3	195.4	290.2	488.2	11.5	8.0	132.7
33	Primary metal industries -----	-		7	6	0.9	11.2	0.7	1.4	8.0	21.4	14.4	35.6	0.8	0.9	14.0
35	Machinery, except electrical --	-		29	14	4.7	39.2	3.5	8.8	26.5	101.3	143.3	246.7	6.6	4.1	71.4
	Stark County -----	-		567	217	55.8	840.3	40.6	78.8	590.4	1 856.7	2 360.1	4 177.0	119.4	56.4	1 131.4
20	Food and kindred products --	-		50	20	5.0	56.6	2.9	5.7	35.2	150.1	343.0	492.8	9.1	4.9	85.0
202	Dairy products-----	-		11	5	0.7	8.0	0.3	0.5	2.6	27.2	58.9	86.8	(D)	0.7	12.0
26	Paper and allied products ---	-		18	10	0.8	10.3	0.7	1.6	8.0	22.9	33.5	56.4	(D)	(NA)	(NA)
265	Paperboard containers and boxes -----	-		11	8	0.6	7.6	0.5	1.1	5.6	16.2	24.9	41.0	1.2	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-		28	15	3.4	41.4	2.7	5.3	29.1	83.4	78.7	160.3	5.6	3.6	54.8
33	Primary metal industries -----	-		28	18	14.3	267.5	11.6	23.1	208.4	674.1	714.0	1 356.5	(D)	14.0	347.7
331	Blast furnace and basic steel products -----	-		10	7	11.2	221.7	9.1	18.1	174.2	588.9	665.4	1 223.8	(D)	10.7	288.4
342	Cutlery, hand tools, and hardware -----	-		6	5	0.5	5.5	0.4	0.7	3.9	12.2	11.0	23.0	(D)	0.5	7.4
345	Screw machine products, bolts, etc. -----	-		6	3	0.5	6.0	0.4	0.7	4.7	13.3	10.8	23.9	0.4	(NA)	(NA)
35	Machinery, except electrical --	-		100	24	8.2	135.2	6.5	12.1	99.1	231.1	248.8	469.5	(D)	(NA)	(NA)
37	Transportation equipment ---	E1		14	1	0.5	8.4	0.4	0.8	5.0	15.8	12.7	29.4	0.2	(NA)	(NA)
382	Measuring and controlling devices -----	-		6	4	0.5	5.1	0.4	0.7	3.2	8.2	5.2	13.4	0.3	(NA)	(NA)
-	Administrative and auxiliary --	-		15	9	2.7	31.2	-	-	-	-	-	-	-	(NA)	(NA)
	Summit County -----	-		867	323	75.6	1 202.6	44.3	87.7	635.1	1 785.5	2 001.1	3 726.7	144.1	85.3	1 502.4
208	Beverages -----	E2		6	5	0.7	9.5	0.2	0.4	2.4	28.6	39.4	67.1	(D)	(NA)	(NA)
27	Printing and publishing -----	E1		105	25	2.3	32.3	1.5	3.0	20.4	62.0	26.3	88.1	(D)	(NA)	(NA)
282	Plastics materials and synthetics -----	-		3	3	0.7	12.3	0.4	0.9	6.7	22.8	88.7	112.0	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-		82	47	24.9	429.3	15.6	31.1	247.0	575.3	756.8	1 285.6	55.2	29.5	686.6
3069	Fabricated rubber products, n.e.c. -----	-		32	15	1.3	15.2	0.9	1.8	9.5	27.9	33.4	60.8	1.5	(NA)	(NA)
34	Fabricated metal products ---	-		124	49	12.8	188.0	10.0	19.3	141.0	398.9	437.6	549.2	19.5	12.8	245.3
3423	Hand and edge tools, n.e.c. -----	-		10	5	0.6	8.1	0.5	0.9	5.3	18.5	13.0	31.4	(D)	(NA)	(NA)
344	Fabricated structural metal products -----	-		38	14	5.2	68.2	3.7	8.8	46.8	187.5	251.7	454.4	5.9	(NA)	(NA)
35	Machinery, except electrical --	-		249	79	10.0	160.9	6.9	14.5	101.0	233.3	226.9	451.6	23.8	9.0	151.7
355	Special industry machinery --	-		29	20	2.7	39.4	1.8	3.5	22.7	70.2	51.1	118.9	2.6	3.4	56.2
-	Administrative and auxiliary --	-		23	12	9.6	166.0	-	-	-	-	-	-	-	(NA)	(NA)
	Trumbull County -----	-		263	122	46.3	847.1	37.2	73.1	650.5	1 736.5	2 534.9	4 254.1	92.0	50.4	1 053.7
33	Primary metal industries -----	-		22	16	11.7	224.7	9.1	16.9	168.8	414.0	740.5	1 164.7	24.8	13.3	272.5
331	Blast furnace and basic steel products -----	-		8	8	9.9	194.6	7.8	14.4	148.7	348.5	579.2	944.5	(D)	11.1	231.8
34	Fabricated metal products ---	-		86	44	6.8	120.7	5.3	10.6	90.1	261.0	259.0	510.3	(D)	7.2	144.2

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies.
For explanation of terms, see appendix B]

SIC code	County and industry		1977										1972		
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
	Trumbull County—Con.														
34	Fabricated metal products—Con.														
344	Fabricated structural metal products -----	-	27	18	1.6	24.7	1.2	2.3	16.9	56.2	64.1	119.1	2.3	2.0	36.7
349	Miscellaneous fabricated metal products -----	-	15	10	1.3	20.0	0.9	1.8	13.2	51.6	48.2	94.6	2.5	(NA)	(NA)
354	Metalworking machinery -----	-	16	6	0.8	13.0	0.7	1.3	10.0	18.6	8.7	26.6	0.7	0.9	14.9
	Tuscarawas County -----	-	189	80	8.8	115.7	6.6	12.9	79.8	265.4	361.3	625.5	16.7	9.4	175.5
24	Lumber and wood products --	-	23	5	0.8	10.1	0.5	1.0	5.1	22.1	25.4	47.8	0.6	0.6	16.4
30	Rubber and miscellaneous plastics products -----	-	14	10	1.0	11.0	0.8	1.7	7.8	26.0	25.9	51.7	2.2	0.6	11.0
32	Stone, clay, and glass products -----	-	31	21	1.7	18.9	1.5	2.8	15.5	38.6	24.3	63.8	1.4	2.2	28.7
325	Structural clay products -----	-	20	18	1.3	14.8	1.1	2.2	12.4	29.6	17.6	48.3	0.9	1.9	24.3
3251	Brick and structural clay tile -----	-	12	12	0.8	7.7	0.7	1.3	6.5	15.0	10.0	26.1	0.4	(NA)	(NA)
33	Primary metal industries -----	-	6	5	0.9	14.0	0.7	1.5	10.7	29.4	32.6	61.6	1.5	1.3	19.1
35	Machinery, except electrical --	-	30	8	1.4	19.2	0.9	1.6	11.8	45.5	33.9	78.8	2.1	1.6	37.7
	Union County -----	-	39	21	4.0	54.4	2.5	4.7	28.8	262.1	209.5	483.1	5.7	2.0	93.9
	Van Wert County -----	-	50	22	4.4	60.6	3.3	6.6	40.5	152.9	235.8	385.1	8.5	4.0	87.4
34	Fabricated metal products ---	-	11	6	1.7	25.1	1.0	2.1	13.1	62.0	85.8	146.2	2.0	1.3	35.6
	Vinton County -----	-	21	5	0.7	6.4	0.6	1.1	5.0	15.6	15.0	30.5	1.0	0.7	5.7
	Warren County -----	-	97	40	3.8	44.8	2.7	5.3	27.0	90.3	123.4	213.1	6.7	3.4	50.1
26	Paper and allied products ---	-	12	7	0.6	7.8	0.4	0.9	5.6	15.3	25.6	41.2	1.0	0.5	9.1
34	Fabricated metal products ---	-	7	6	0.5	5.4	0.4	0.8	4.0	12.5	16.5	29.2	(D)	(NA)	(NA)
	Washington County -----	-	83	28	5.2	84.3	4.3	8.2	52.9	228.0	375.0	587.5	43.4	5.9	139.1
34	Fabricated metal products ---	-	8	6	0.9	12.0	0.5	0.9	7.0	25.9	48.7	74.2	0.7	0.8	13.9
	Wayne County -----	-	180	84	13.4	174.8	9.9	19.7	117.2	397.5	548.2	942.2	43.4	12.2	222.2
20	Food and kindred products --	-	25	11	1.2	15.0	0.8	1.7	10.5	56.4	185.9	243.0	(D)	1.1	23.0
24	Lumber and wood products --	E1	24	7	0.5	4.8	0.4	0.8	3.4	8.3	18.0	26.4	0.8	0.5	7.0
265	Paperboard containers and boxes -----	-	4	4	0.9	13.9	0.8	1.6	10.5	23.0	51.4	73.5	2.4	(NA)	(NA)
33	Primary metal industries -----	-	8	6	0.9	14.0	0.8	1.7	11.8	40.6	67.5	107.8	1.7	0.9	17.2
34	Fabricated metal products ---	-	15	8	1.6	18.3	1.3	2.3	12.9	39.4	35.3	74.0	1.8	2.0	33.3
349	Miscellaneous fabricated metal products -----	-	6	3	0.5	7.2	0.4	0.7	4.6	18.1	12.4	30.1	1.3	0.5	11.5
35	Machinery, except electrical --	-	28	10	1.4	18.9	1.0	2.0	12.3	39.0	32.0	69.0	6.9	0.8	13.5
37	Transportation equipment ---	-	8	6	1.4	17.3	1.0	2.1	12.3	26.0	25.8	53.1	0.2	1.0	13.7
3713	Truck and bus bodies ---	-	5	3	0.8	10.5	0.6	1.3	7.6	13.9	16.7	31.9	0.1	(NA)	(NA)
	Williams County -----	-	98	50	7.9	99.2	5.9	11.3	84.8	228.7	268.5	496.5	15.0	7.2	148.0
20	Food and kindred products --	-	8	4	0.5	4.9	0.3	0.5	2.6	15.8	25.4	41.0	0.7	0.5	12.4
26	Furniture and fixtures -----	-	6	5	0.6	5.0	0.5	0.9	4.0	10.1	12.7	22.8	(D)	(NA)	(NA)
35	Machinery, except electrical --	-	20	8	2.9	39.7	2.0	4.1	25.0	78.7	59.3	136.9	4.5	2.4	45.0
36	Electric and electronic equipment -----	-	4	4	0.5	3.7	0.4	0.8	3.2	6.9	5.8	12.9	0.5	0.7	8.4

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972		
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital ex- pendit- ures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Williams County—Con.														
37	Transportation equipment ---	E2	8	6	1.2	16.8	1.0	2.0	13.9	45.1	47.8	92.5	(D)	0.7	20.5
	Wood County -----	-	162	62	13.5	211.7	11.0	21.6	164.9	379.6	461.0	838.2	31.7	13.7	320.4
20	Food and kindred products --	-	19	8	0.9	8.7	0.8	1.4	6.2	36.4	82.9	119.1	1.4	1.2	34.7
30	Rubber and miscellaneous plastics products -----	-	12	10	1.6	15.7	1.2	2.5	11.1	35.0	36.5	71.7	(D)	1.3	19.1
3079	Miscellaneous plastics products -----	-	7	5	1.1	10.8	0.9	1.8	7.9	26.6	29.2	56.2	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	21	9	0.9	12.8	0.7	1.5	9.6	25.8	45.2	70.0	1.8	0.5	8.9
35	Machinery, except electrical --	-	36	9	0.9	13.6	0.6	1.2	7.5	27.1	25.6	52.8	1.0	1.4	27.0
	Wyandot County -----	-	51	21	3.4	32.1	2.9	5.4	25.3	72.6	85.0	157.0	8.1	2.3	39.5
30	Rubber and miscellaneous plastics products -----	-	8	7	1.5	13.3	1.4	2.6	10.8	26.4	31.1	57.8	(D)	0.8	10.0

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B). - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Akron -----	-	376	139	44.4	738.5	22.6	44.9	339.1	906.4	1 029.0	1 883.4	73.2	50.6	935.8
20	Food and kindred products --	E2	27	10	1.3	16.9	0.6	1.1	6.3	46.1	43.0	88.7	3.6	1.4	24.4
27	Printing and publishing -----	E1	59	20	1.8	26.4	1.2	2.4	17.1	52.3	21.8	74.0	2.2	1.7	34.3
275	Commercial printing -----	E2	36	10	0.6	7.6	0.5	0.9	5.3	13.9	7.4	21.2	1.1	(NA)	(NA)
28	Chemicals and allied products -----	-	15	8	1.3	22.0	0.8	1.6	12.9	52.9	98.4	151.3	5.5	1.3	37.0
30	Rubber and miscellaneous plastics products -----	-	28	13	21.1	380.4	12.6	25.2	212.0	474.0	624.8	1 061.7	48.4	25.7	622.9
3079	Miscellaneous plastics products -----	E1	12	5	0.5	6.2	0.4	0.9	4.4	11.0	9.3	20.3	0.3	(NA)	(NA)
33	Primary metal industries -----	-	12	4	0.7	9.7	0.6	1.1	7.4	22.2	25.6	47.6	1.5	0.7	13.9
34	Fabricated metal products ---	-	61	23	1.9	24.7	1.5	3.0	15.6	46.4	47.8	93.8	3.2	2.2	39.8
346	Metal forgings and stampings -----	-	9	7	0.6	7.8	0.5	1.0	5.2	16.2	17.3	33.5	1.8	(NA)	(NA)
3465	Automotive stampings ---	-	3	3	0.5	6.0	0.4	0.8	3.9	12.6	13.7	26.3	(D)	(NA)	(NA)
35	Machinery, except electrical --	-	95	27	3.3	48.0	2.4	4.9	31.1	79.6	50.1	127.6	4.1	3.8	61.6
354	Metalworking machinery ---	-	28	11	1.0	15.3	0.8	1.7	11.0	23.8	7.9	32.1	1.1	(NA)	(NA)
355	Special industry machinery ---	-	13	7	1.5	22.5	1.0	2.1	13.6	38.7	28.4	65.4	1.7	(NA)	(NA)
	Alliance -----	-	84	29	5.5	82.9	3.9	7.8	53.6	128.6	126.8	259.1	4.6	5.7	96.8
	Archbold -----	-	37	18	2.6	30.0	2.0	3.9	20.6	88.8	156.1	244.3	2.6	1.9	42.4
	Ashland -----	-	65	30	5.4	62.4	3.8	7.8	39.7	156.1	155.7	310.0	6.1	5.0	80.5
30	Rubber and miscellaneous plastics products -----	-	7	7	1.4	16.1	1.1	2.2	10.7	39.6	29.0	68.3	1.2	1.3	23.7
	Ashtabula -----	-	48	20	3.9	51.5	3.0	5.6	36.8	98.7	99.3	195.0	7.5	4.7	91.7
30	Rubber and miscellaneous plastics products -----	-	10	7	1.7	18.9	1.5	2.7	14.5	33.8	38.1	71.6	4.5	1.5	21.6
	Athens -----	-	12	5	0.7	8.2	0.5	0.9	5.2	19.4	16.1	33.0	0.8	0.7	11.9
	Aurora -----	-	12	8	0.9	11.8	0.8	1.2	6.6	30.8	34.8	64.4	(D)	0.6	9.8
	Austintown (U) -----	-	22	11	3.2	52.3	2.4	4.7	35.9	127.0	120.4	243.1	3.0	5.9	96.7
34	Fabricated metal products ---	-	6	4	0.7	10.8	0.6	1.1	7.6	21.2	33.2	54.0	0.9	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	4	3	0.6	9.3	0.5	1.0	6.7	17.2	29.2	46.2	0.9	(NA)	(NA)
	Barberton -----	-	61	25	9.7	144.5	8.0	11.4	81.1	289.6	325.5	624.9	23.8	12.9	198.0
30	Rubber and miscellaneous plastics products -----	-	11	8	1.8	26.7	1.4	2.8	21.0	54.4	88.5	134.7	3.1	2.0	35.5
	Beachwood -----	-	41	10	0.7	10.2	0.3	0.6	3.3	15.5	15.6	30.7	1.1	0.6	9.0
	Bedford -----	-	61	23	2.5	35.7	1.8	3.5	22.6	69.5	57.4	125.8	3.1	3.0	41.6
	Bedford Heights -----	-	63	35	4.6	56.7	3.5	7.0	37.4	154.1	165.2	318.3	7.0	3.9	68.1
34	Fabricated metal products ---	-	8	6	0.8	10.2	0.6	1.3	7.4	19.1	18.9	37.8	(D)	0.6	12.6
35	Machinery, except electrical --	-	12	4	0.5	7.5	0.4	0.8	5.1	14.7	6.6	21.2	0.8	0.6	10.0
	Bellaire -----	-	14	5	0.9	9.0	0.8	1.4	6.7	15.5	9.9	25.3	2.9	1.0	8.4
	Bellefontaine -----	-	22	11	2.9	35.9	2.3	4.4	26.5	68.8	58.9	126.9	4.3	2.4	42.4
	Berea -----	-	34	11	0.8	11.3	0.6	1.2	7.5	24.2	19.1	43.0	2.1	1.0	19.4
	Blanchester -----	-	8	7	0.5	6.0	0.4	0.7	3.5	13.6	10.9	24.7	(D)	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Blue Ash -----	-	75	45	5.8	70.5	4.3	8.2	44.7	182.8	152.6	312.8	11.7	4.3	77.2
34	Fabricated metal products ---	-	10	7	1.8	25.7	1.3	2.8	16.1	54.2	44.5	97.7	5.8	1.3	24.9
35	Machinery, except electrical --	-	17	10	0.9	11.7	0.7	1.3	7.4	27.2	20.9	47.9	0.9	0.5	7.7
	Boardman (U) -----	-	41	16	2.4	36.0	1.1	2.1	11.8	41.0	53.7	94.4	2.9	(D)	(D)
	Bowling Green -----	-	28	13	1.1	13.5	0.8	1.6	8.2	30.3	31.8	61.9	2.6	1.7	30.0
	Brecksville -----	-	30	13	1.1	18.8	0.5	0.9	5.3	21.8	12.5	34.3	0.4	0.8	6.4
	Brooklyn -----	-	63	32	4.7	85.4	3.0	6.5	44.6	172.7	137.7	301.7	7.5	12.0	328.8
34	Fabricated metal products ---	-	22	12	1.2	17.0	0.9	1.8	11.7	38.1	15.7	51.2	(D)	1.8	36.0
35	Machinery, except electrical --	-	27	13	1.6	29.8	1.2	2.6	21.2	118.1	92.5	203.6	1.8	1.5	54.1
	Brookville -----	-	15	8	0.7	7.0	0.6	1.0	5.0	13.7	19.1	32.8	1.3	(NA)	(NA)
	Bryan -----	-	44	21	4.8	59.5	3.4	6.5	36.5	138.6	140.8	278.4	10.1	4.1	82.3
35	Machinery, except electrical --	-	8	3	2.0	28.2	1.4	2.9	17.8	56.2	43.6	99.7	3.6	1.7	32.4
	Bucyrus -----	-	38	13	2.4	29.1	1.9	3.7	21.9	75.0	66.1	144.1	2.0	3.9	78.1
	Cambridge -----	-	41	19	3.9	44.3	2.3	4.1	24.0	125.5	145.9	273.2	4.3	3.0	46.0
	Canton -----	-	207	78	25.9	431.9	18.6	35.8	304.8	940.3	858.6	1 758.6	66.0	25.5	484.2
27	Printing and publishing -----	-	32	9	1.1	14.2	0.8	1.5	9.7	32.5	18.2	50.6	1.1	1.1	18.7
275	Commercial printing -----	-	19	5	0.7	10.0	0.6	1.2	7.8	15.5	9.0	24.5	0.6	(NA)	(NA)
2752	Commercial printing, lithographic -----	-	8	3	0.5	7.9	0.5	0.9	6.1	11.8	8.9	18.7	0.4	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	8	3	0.6	6.1	0.5	0.8	4.3	15.9	12.9	28.6	0.5	0.6	8.5
34	Fabricated metal products ---	-	40	20	3.6	49.5	2.2	4.1	27.1	108.6	86.7	197.1	2.5	4.1	99.3
35	Machinery, except electrical --	-	38	10	6.0	103.6	4.8	8.9	78.7	177.9	201.1	364.8	(D)	(NA)	(NA)
-	Administrative and auxiliary --	-	7	5	1.9	19.2	-	-	-	-	-	-	-	(NA)	(NA)
	Carrollton -----	-	18	8	0.6	5.4	0.5	0.8	3.7	12.8	13.8	26.2	0.4	(NA)	(NA)
	Celina -----	-	28	7	3.0	28.9	2.5	4.7	24.1	57.9	110.5	163.9	2.2	3.4	49.4
	Centerville -----	-	36	9	0.8	7.2	0.4	0.7	4.1	12.6	11.8	24.2	1.0	(NA)	(NA)
	Chardon -----	-	26	12	1.8	20.0	1.2	2.4	12.6	57.8	29.8	87.0	2.1	1.1	17.5
	Chillicothe -----	-	35	12	5.2	77.5	3.7	7.8	51.5	220.2	266.7	484.5	(D)	(D)	(D)
	Cincinnati -----	-	942	367	64.4	960.1	33.1	66.5	410.9	1 653.0	1 644.0	3 285.1	79.5	68.2	1 030.3
20	Food and kindred products --	-	72	42	7.9	117.8	3.9	8.1	57.5	293.9	517.7	811.3	9.8	8.8	182.3
2026	Fluid milk -----	-	5	4	0.6	8.6	0.2	0.4	2.9	7.0	51.5	58.4	(D)	(NA)	(NA)
23	Apparel and other textile products -----	E2	35	15	1.9	15.7	1.4	2.4	9.2	32.4	25.3	57.2	0.6	2.4	27.6
25	Furniture and fixtures -----	-	26	9	0.9	8.9	0.7	1.3	6.0	15.5	14.6	30.0	0.3	1.6	22.9
26	Paper and allied products ---	E1	24	14	1.1	14.0	0.9	1.7	10.1	26.2	32.5	58.5	1.5	1.0	17.4
27	Printing and publishing -----	-	206	58	5.9	81.6	3.6	6.6	46.3	202.4	110.2	310.2	9.3	7.7	144.6
2751	Commercial printing, letterpress -----	E1	55	7	0.6	6.3	0.4	0.8	4.5	11.5	11.4	22.8	1.4	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry		1977											1972	
			All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
		E ¹													
	Cincinnati—Con.														
27	Printing and publishing—Con.														
2752	Commercial printing, lithographic -----	E2	66	16	1.2	17.2	0.9	1.7	11.5	28.4	18.7	47.1	1.1	(NA)	(NA)
28	Chemicals and allied products -----	-	46	16	3.7	52.5	2.3	4.6	29.6	166.4	163.4	322.1	9.0	3.5	87.3
284	Soaps, cleaners, and toilet goods -----	-	10	3	1.0	13.7	0.6	1.1	5.8	54.7	34.8	89.3	1.0	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	E2	21	6	0.7	7.6	0.6	1.2	5.3	12.2	16.9	29.1	0.9	1.2	14.4
3079	Miscellaneous plastics products -----	E1	18	6	0.7	7.3	0.6	1.1	5.1	11.4	16.1	27.5	0.9	(NA)	(NA)
33	Primary metal industries -----	-	30	18	1.3	18.0	1.1	2.3	13.8	37.6	38.5	75.9	2.0	1.3	20.9
336	Nonferrous foundries -----	-	12	8	0.7	10.8	0.6	1.4	8.7	24.7	18.3	42.2	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	113	48	5.6	89.9	4.3	8.2	45.6	146.2	139.4	287.4	8.1	7.8	120.9
3469	Metal stampings, n.e.c. ---	-	10	4	0.7	8.1	0.6	0.9	4.8	14.9	13.9	28.6	0.5	(NA)	(NA)
35	Machinery, except electrical --	-	134	52	12.5	187.8	7.0	14.2	96.4	326.9	209.6	544.5	17.5	10.5	153.4
3541	Machine tools, metal cutting types -----	-	13	10	7.3	116.1	3.4	6.9	55.2	183.8	99.1	292.8	10.8	(NA)	(NA)
3545	Machine tool accessories -----	E2	4	3	0.6	8.3	0.4	0.8	5.4	15.3	7.5	22.9	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	30	18	4.2	57.7	2.5	5.0	27.5	152.4	96.2	245.2	5.2	4.1	93.0
3643	Current-carrying wiring devices -----	-	5	5	0.8	9.5	0.6	1.1	5.6	16.9	14.6	29.8	(D)	(NA)	(NA)
38	Instruments and related products -----	-	25	6	0.6	6.5	0.4	0.7	3.1	12.1	8.8	20.6	0.3	0.5	8.5
39	Miscellaneous manufacturing industries -----	-	57	18	3.2	31.9	2.1	4.6	18.8	119.9	92.1	206.5	(D)	3.4	52.6
-	Administrative and auxiliary --	-	56	30	12.0	233.8	-	-	-	-	-	-	-	(NA)	(NA)
	Circleville -----	-	16	8	1.8	23.4	1.5	2.8	17.5	79.8	128.9	208.3	5.5	2.4	67.8
	Cleveland -----	-	2 099	765	120.8	1 847.9	78.9	156.3	1 075.4	3 523.5	3 634.0	7 159.7	149.1	131.2	2 457.0
20	Food and kindred products --	E1	94	42	4.5	62.3	2.7	5.4	33.2	152.1	301.1	452.6	4.9	5.6	141.7
201	Meat products -----	-	21	9	0.8	10.1	0.5	1.1	8.0	16.0	98.6	114.6	0.5	(NA)	(NA)
205	Bakery products -----	-	13	8	1.5	21.1	0.9	1.7	10.5	41.1	27.0	68.3	1.5	(NA)	(NA)
2051	Bread, cake, and related products -----	-	13	8	1.5	21.1	0.9	1.7	10.5	41.1	27.0	68.3	1.5	(NA)	(NA)
208	Beverages -----	E2	20	6	1.3	16.3	0.7	1.3	7.9	56.2	69.9	125.2	0.9	(NA)	(NA)
22	Apparel and other textile products -----	-	70	31	5.6	45.3	4.6	7.5	34.9	143.7	113.0	253.4	1.0	7.3	125.5
233	Women's and misses' outerwear -----	-	19	13	2.0	18.5	1.6	2.6	12.5	29.1	50.9	82.9	0.1	(NA)	(NA)
25	Furniture and fixtures -----	-	37	12	1.2	13.9	0.9	1.8	9.2	24.1	23.1	46.4	1.3	1.6	24.2
251	Household furniture -----	E1	13	5	0.5	4.8	0.4	0.8	3.5	8.9	12.4	21.3	(D)	(NA)	(NA)
254	Partitions and fixtures -----	-	15	5	0.6	8.0	0.4	0.9	5.1	13.3	9.0	21.6	(D)	(NA)	(NA)
26	Paper and allied products ---	-	41	24	1.9	23.4	1.5	2.8	15.6	43.0	59.4	102.3	2.7	2.3	32.3
264	Miscellaneous converted paper products -----	E1	20	10	0.6	7.5	0.5	0.9	4.7	14.7	18.9	33.5	1.2	(NA)	(NA)
265	Paperboard containers and boxes -----	-	21	14	1.3	15.9	1.0	1.9	10.9	28.3	40.5	68.8	1.6	(NA)	(NA)
2653	Corrugated and solid fiber boxes -----	-	10	7	0.8	10.3	0.6	1.2	7.0	18.2	32.4	50.6	1.3	(NA)	(NA)
27	Printing and publishing -----	-	287	84	8.6	128.9	4.3	8.3	61.6	267.2	124.5	389.8	7.2	9.9	202.5
2711	Newspapers -----	-	18	6	3.4	53.7	1.3	2.3	21.1	107.1	44.3	151.4	(D)	(NA)	(NA)
2721	Periodicals -----	-	12	6	1.0	15.1	(Z)	0.2	0.7	52.7	19.1	70.4	1.2	(NA)	(NA)
275	Commercial printing -----	E1	176	33	2.7	39.0	2.0	3.8	25.8	71.2	50.2	121.1	2.2	(NA)	(NA)
2752	Commercial printing, lithographic -----	-	79	17	1.3	18.9	0.8	1.6	11.2	33.0	22.9	55.2	0.8	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Cleveland—Con.														
27	Printing and publishing—Con.														
279	Printing trade services ----	-	45	10	0.6	8.9	0.4	0.8	6.3	14.3	3.1	17.3	0.5	(NA)	(NA)
28	Chemicals and allied products -----	-	106	38	4.5	71.1	2.5	5.3	35.5	282.5	305.1	587.1	12.6	5.3	188.4
281	Industrial inorganic chemicals -----	-	9	4	1.4	23.1	0.8	1.7	12.3	49.2	72.7	121.8	4.9	(NA)	(NA)
2851	Paints and allied products -----	-	19	9	1.3	21.9	0.7	1.7	11.4	78.8	88.8	167.1	2.3	(NA)	(NA)
289	Miscellaneous chemical products -----	-	44	15	1.0	15.0	0.5	1.1	8.5	67.2	74.9	142.5	3.0	(NA)	(NA)
2899	Chemical preparations, n.e.c. -----	-	32	9	0.6	9.8	0.4	0.7	4.6	53.3	59.8	113.5	2.3	(NA)	(NA)
29	Petroleum and coal products -	-	26	17	1.5	25.0	0.6	1.1	6.8	50.4	92.0	142.6	(D)	(NA)	(NA)
295	Paving and roofing materials -----	-	10	7	0.9	16.3	0.3	0.6	3.2	30.5	26.8	58.8	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	E1	51	24	1.7	18.2	1.3	2.6	11.7	43.2	40.1	83.4	1.8	1.7	42.1
3079	Miscellaneous plastics products -----	E2	43	20	1.2	13.2	1.0	1.9	8.2	34.0	31.5	65.6	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	57	18	2.0	28.1	1.6	2.9	19.8	64.9	48.2	112.8	3.2	2.0	40.7
329	Miscellaneous nonmetallic mineral products -----	-	23	9	0.9	12.4	0.7	1.3	8.4	29.1	22.5	51.5	1.6	(NA)	(NA)
33	Primary metal industries -----	-	95	48	16.2	305.0	13.2	25.9	236.0	789.6	946.3	1 733.2	39.8	13.6	308.2
332	Iron and steel foundries ---	-	11	7	1.5	23.6	1.3	2.4	17.9	46.4	57.8	105.1	3.0	(NA)	(NA)
3341	Secondary nonferrous metals -----	-	10	8	0.6	8.2	0.4	0.9	5.2	19.0	79.2	96.8	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	399	168	20.2	308.1	15.7	32.6	219.9	586.3	629.1	1 221.1	28.2	20.2	369.4
341	Metal cans and shipping containers -----	-	6	5	0.7	9.8	0.5	1.1	7.0	25.0	33.0	60.9	0.2	(NA)	(NA)
342	Cutlery, hand tools, and hardware -----	E1	19	11	0.7	8.8	0.6	1.0	5.9	18.9	20.3	38.9	(D)	(NA)	(NA)
343	Plumbing and heating, except electric -----	E1	13	7	0.6	6.7	0.4	0.8	4.7	13.2	14.8	28.2	(D)	(NA)	(NA)
344	Fabricated structural metal products -----	-	60	23	2.0	26.8	1.4	2.9	16.9	56.7	66.3	122.0	2.9	(NA)	(NA)
3443	Fabricated plate work (boiler shops) -----	-	11	5	0.5	8.5	0.4	0.8	5.7	13.9	15.8	29.6	0.7	(NA)	(NA)
3444	Sheet metal work -----	-	14	8	0.7	8.0	0.5	0.9	4.4	18.1	15.8	33.2	1.9	(NA)	(NA)
345	Screw machine products, bolts, etc. -----	-	48	22	2.4	35.2	1.8	3.9	23.4	44.1	59.4	116.3	4.4	(NA)	(NA)
3451	Screw machine products -----	E1	31	12	0.9	10.6	0.7	1.5	7.2	18.5	12.2	30.1	1.0	(NA)	(NA)
3452	Bolts, nuts, rivets, and washers -----	-	17	10	1.5	24.6	1.2	2.4	16.2	25.6	47.2	86.2	3.4	(NA)	(NA)
346	Metal forgings and stampings -----	-	84	43	9.0	163.2	7.3	15.8	125.7	299.1	321.9	618.6	15.7	(NA)	(NA)
3462	Iron and steel forgings ---	-	14	10	1.6	24.6	1.3	2.3	16.7	44.3	63.3	106.9	3.3	(NA)	(NA)
3465	Automotive stampings ---	-	14	12	5.5	115.3	4.4	10.3	83.0	207.3	212.6	419.3	10.7	(NA)	(NA)
347	Metal services, n.e.c. -----	E2	106	30	1.5	16.2	1.3	2.5	10.8	31.8	14.2	45.8	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	63	27	3.3	41.4	2.4	4.6	25.5	97.5	99.1	190.4	2.2	(NA)	(NA)
3494	Valves and pipe fittings ---	-	11	5	0.7	10.4	0.5	1.0	6.0	32.8	24.0	52.2	1.0	(NA)	(NA)
3496	Miscellaneous fabricated wire products -----	-	15	8	0.7	8.8	0.6	1.1	5.4	13.5	10.0	23.5	0.4	(NA)	(NA)
3499	Fabricated metal products, n.e.c. -----	E1	20	4	0.5	6.5	0.4	0.8	4.4	15.7	10.9	26.9	0.1	(NA)	(NA)
35	Machinery, except electrical -	-	469	126	19.8	305.6	14.3	29.4	201.4	608.3	346.9	957.6	25.4	22.0	425.1
353	Construction and related machinery -----	-	22	11	2.1	27.3	1.4	2.9	16.7	51.3	41.1	97.1	0.9	(NA)	(NA)
354	Metalworking machinery ---	-	169	50	8.8	140.2	6.2	12.8	88.8	279.0	127.5	407.9	7.6	(NA)	(NA)
355	Special industry machinery -	-	27	15	1.9	30.8	1.4	2.9	21.0	58.9	43.4	100.5	2.0	(NA)	(NA)
356	General industrial machinery -----	-	50	16	1.9	28.6	1.3	2.7	18.1	58.3	39.1	98.8	4.4	(NA)	(NA)
3566	Speed changers, drives, and gears -----	-	7	5	0.8	14.1	0.5	1.2	8.3	33.7	18.3	52.5	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	-	187	26	4.3	69.6	3.4	6.9	50.9	138.7	78.2	214.8	9.6	(NA)	(NA)
36	Electric and electronic equipment -----	-	75	46	8.3	102.9	6.2	12.2	70.0	226.0	200.9	420.7	9.3	10.8	201.5

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Cleveland—Con.														
36	Electric and electronic equipment—Con.														
362	Electrical industrial apparatus -----	-	12	9	2.1	32.5	1.6	3.6	22.8	55.8	35.5	91.3	(D)	(NA)	(NA)
3621	Motors and generators --	-	4	4	1.4	23.0	1.1	2.7	17.0	38.7	24.9	83.8	(D)	(NA)	(NA)
364	Electric lighting and wiring equipment -----	-	30	21	3.0	34.1	2.3	4.3	24.0	78.1	61.0	138.1	1.6	(NA)	(NA)
3714	Motor vehicle parts and accessories -----	-	21	9	4.1	66.3	3.0	6.1	45.5	96.2	117.0	212.2	4.0	(NA)	(NA)
38	Instruments and related products -----	-	41	16	2.1	26.1	1.3	2.6	12.6	59.2	29.2	85.4	1.5	1.8	33.0
382	Measuring and controlling devices -----	-	16	9	1.6	19.9	0.9	1.8	8.9	46.4	19.5	63.3	1.1	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	88	26	2.1	23.5	1.5	2.8	14.0	47.4	39.9	86.8	1.5	2.2	33.7
3993	Signs and advertising displays -----	E2	20	9	0.5	5.6	0.4	0.7	3.5	9.5	5.2	14.7	0.3	(NA)	(NA)
-	Administrative and auxiliary --	-	57	38	11.7	223.5	-	-	-	-	-	-	-	(NA)	(NA)
	Coldwater -----	-	12	6	1.7	25.8	1.3	2.5	19.0	49.7	47.1	98.2	2.1	1.7	29.8
	Columbiana -----	-	28	10	1.7	23.8	1.3	2.4	15.5	47.4	36.8	81.1	1.8	1.7	26.1
	Columbus -----	-	793	202	55.5	825.3	34.3	66.6	455.2	1 732.3	1 667.5	3 399.0	96.6	62.1	1 161.5
20	Food and kindred products --	-	72	40	6.2	88.9	4.2	8.8	59.2	384.8	547.1	931.4	16.0	6.9	200.6
201	Meat products -----	-	17	7	0.7	7.7	0.6	1.2	5.6	6.9	77.7	84.6	0.7	(NA)	(NA)
2011	Meat packing plants -----	-	9	5	0.8	6.4	0.5	1.0	4.8	3.4	67.5	70.8	0.5	(NA)	(NA)
202	Dairy products -----	-	5	4	1.0	15.0	0.8	1.3	9.1	84.2	95.5	178.7	(D)	(NA)	(NA)
204	Grain mill products -----	-	5	5	0.5	8.1	0.4	0.8	6.3	33.8	39.5	73.5	0.4	(NA)	(NA)
205	Bakery products -----	-	15	10	1.4	19.1	1.2	2.3	14.7	47.0	45.6	92.5	1.4	(NA)	(NA)
208	Beverages -----	-	8	7	1.7	29.4	1.0	2.0	18.2	179.0	214.3	392.6	8.8	(NA)	(NA)
25	Furniture and fixtures -----	-	17	6	0.7	9.6	0.5	1.1	6.1	16.1	11.6	27.3	0.4	(NA)	(NA)
26	Paper and allied products ---	E1	16	9	0.8	7.1	0.5	1.0	5.2	14.0	21.4	35.3	0.6	(NA)	(NA)
27	Printing and publishing -----	-	139	32	5.3	69.0	2.6	4.9	36.3	198.1	88.8	286.7	4.6	5.3	104.3
275	Commercial printing -----	-	91	14	1.3	16.3	1.0	1.8	11.7	28.4	19.0	45.5	1.5	(NA)	(NA)
2752	Commercial printing, lithographic -----	-	48	11	1.0	13.3	0.8	1.4	9.6	20.3	15.0	35.3	1.2	(NA)	(NA)
28	Chemicals and allied products -----	-	51	18	2.1	29.1	1.0	2.1	11.4	75.2	122.8	197.4	3.7	2.0	44.6
30	Rubber and miscellaneous plastics products -----	-	26	13	1.3	17.8	1.1	2.3	13.2	45.6	55.2	88.9	8.1	0.7	11.9
32	Stone, clay, and glass products -----	-	35	15	3.2	42.2	2.5	4.7	28.9	77.6	47.8	125.6	4.5	4.1	79.0
327	Concrete, gypsum, and plaster products -----	E1	17	8	0.5	7.5	0.3	0.6	3.8	14.5	16.6	31.4	(D)	(NA)	(NA)
33	Primary metal industries -----	-	20	8	3.1	43.7	2.5	4.6	35.5	68.6	97.7	168.3	5.3	(NA)	(NA)
34	Fabricated metal products ---	-	90	34	4.0	51.4	3.0	5.8	33.7	114.0	101.5	213.8	18.9	4.3	70.5
35	Machinery, except electrical --	-	106	37	7.7	105.1	5.3	10.3	71.0	199.3	238.7	431.9	10.1	7.5	152.3
354	Metalworking machinery ---	-	19	7	0.8	11.7	0.6	1.1	7.5	18.7	7.9	25.5	0.8	(NA)	(NA)
358	Refrigeration and service machinery -----	-	13	6	1.1	14.0	0.7	1.4	9.0	24.8	51.4	74.0	1.1	(NA)	(NA)
3585	Refrigeration and heating equipment -----	-	8	4	1.0	13.3	0.7	1.4	8.6	23.3	50.1	71.2	1.1	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E1	35	4	0.5	6.6	0.3	0.7	3.8	11.4	6.9	18.1	0.6	(NA)	(NA)
3589	Machinery, except electrical, n.e.c. -----	E1	35	4	0.5	6.6	0.3	0.7	3.8	11.4	6.9	18.1	0.6	(NA)	(NA)
371	Motor vehicles and equipment -----	-	12	3	1.0	14.7	0.8	1.4	11.3	31.4	21.9	53.3	(D)	(NA)	(NA)
38	Instruments and related products -----	-	23	9	2.8	46.3	1.5	2.9	19.1	67.5	46.3	115.1	2.2	2.5	46.2

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Columbus—Con.														
39	Miscellaneous manufacturing industries -----	-	41	8	1.0	12.0	0.7	1.4	7.1	21.8	14.8	36.1	0.4	1.0	15.1
399	Miscellaneous manufactures -----	-	29	5	0.8	10.2	0.6	1.2	6.2	18.7	11.7	29.9	(D)	(NA)	(NA)
--	Administrative and auxiliary --	-	40	22	4.1	89.5	-	-	-	-	-	-	-	(NA)	(NA)
	Conneaut -----	-	22	16	2.3	23.3	1.8	3.1	16.5	57.0	42.7	100.2	5.8	1.7	29.0
	Coshocton -----	-	37	17	4.7	69.2	3.3	7.1	44.8	155.6	190.4	344.4	17.1	4.4	93.6
27	Printing and publishing -----	-	8	3	0.8	8.4	0.3	0.6	2.9	14.3	6.7	20.9	(D)	0.7	9.3
	Cuyahoga Falls -----	-	67	22	2.2	27.2	1.7	3.3	19.7	66.2	60.8	123.4	3.3	6.1	73.3
35	Machinery, except electrical --	-	25	9	0.8	10.9	0.6	1.3	8.1	17.2	8.7	25.6	1.3	0.8	13.3
	Dayton -----	-	488	189	57.1	1 016.1	40.0	82.7	672.2	1 831.7	1 537.4	3 319.1	145.9	72.4	1 457.5
205	Bakery products -----	-	6	3	0.5	6.2	0.3	0.6	3.7	14.0	9.8	23.3	0.2	(NA)	(NA)
275	Commercial printing -----	-	45	9	4.1	63.4	3.5	6.6	53.7	83.5	85.6	169.8	(D)	(NA)	(NA)
332	Iron and steel foundries ---	-	5	4	1.2	17.5	1.1	2.1	14.4	38.2	27.8	66.2	1.7	(NA)	(NA)
3321	Gray iron foundries -----	-	5	4	1.2	17.5	1.1	2.1	14.4	38.2	27.8	66.2	1.7	(NA)	(NA)
344	Fabricated structural metal products -----	E1	21	8	0.7	10.0	0.5	1.1	6.1	17.5	17.1	34.1	1.1	(NA)	(NA)
346	Metal forgings and stampings -----	-	9	5	0.7	10.4	0.6	1.2	8.2	16.7	16.1	32.2	1.3	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	11	4	0.6	7.5	0.4	0.9	5.0	16.0	20.0	36.0	1.5	(NA)	(NA)
354	Metalworking machinery ---	-	82	28	3.0	55.0	2.3	5.1	38.8	108.2	34.2	138.2	4.7	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures -----	-	61	22	1.7	33.7	1.5	3.6	26.5	55.6	18.3	72.4	(D)	(NA)	(NA)
356	General industrial machinery -----	-	21	8	2.4	34.6	1.5	3.2	20.6	75.3	40.0	114.2	5.2	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E1	31	12	0.5	6.3	0.4	1.5	4.4	11.3	5.4	16.3	(D)	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E1	31	12	0.5	6.3	0.4	1.5	4.4	11.3	5.4	16.3	(D)	(NA)	(NA)
--	Administrative and auxiliary --	-	18	12	4.9	103.9	-	-	-	-	-	-	-	(NA)	(NA)
	Defiance -----	-	35	15	6.6	128.9	5.6	11.5	105.5	288.2	219.3	501.0	(D)	(D)	(D)
	Delaware -----	-	32	19	3.7	47.4	2.7	5.2	31.8	98.2	110.2	204.6	3.9	3.0	54.5
	Dover -----	-	34	20	2.2	33.6	1.4	2.9	20.7	75.7	143.2	217.6	6.8	2.2	45.1
	East Cleveland -----	-	37	15	3.6	79.9	1.3	2.3	12.5	40.1	28.6	68.6	1.4	3.8	30.1
	Eastlake -----	-	84	23	2.2	29.2	1.6	3.1	16.1	46.3	33.2	78.1	2.7	1.9	48.5
34	Fabricated metal products ---	-	16	6	0.5	5.9	0.4	0.8	4.1	14.3	12.1	26.1	0.5	0.7	28.3
	East Liverpool -----	-	27	10	1.2	11.6	1.0	1.7	7.7	22.8	12.2	35.1	0.6	1.4	15.9
32	Stone, clay, and glass products -----	-	7	5	0.9	7.7	0.7	1.3	5.5	14.3	5.2	19.4	(D)	1.0	9.3
	East Palestine -----	-	29	11	1.1	11.9	0.8	1.6	8.8	16.4	16.2	32.5	1.0	1.1	15.5
	Eaton -----	-	20	8	1.3	13.6	1.0	1.9	9.6	32.5	25.4	57.2	2.1	1.1	20.8
	Elmwood Place -----	-	12	8	1.4	17.6	1.0	1.7	10.6	35.2	19.2	54.4	(D)	1.0	23.7
	Elyria -----	-	119	50	9.6	139.7	6.0	12.5	77.2	325.3	278.0	589.6	15.0	9.9	191.3
349	Miscellaneous fabricated metal products -----	-	4	4	0.9	11.9	0.7	1.4	8.7	22.6	10.0	31.3	(D)	(NA)	(NA)
	Euclid -----	-	142	67	17.4	324.5	11.5	23.4	192.3	608.0	586.5	1 181.2	41.0	15.4	373.1
33	Primary metal industries -----	-	17	10	2.1	34.2	1.5	3.3	23.3	61.4	130.9	192.8	4.0	2.0	19.3
34	Fabricated metal products ---	-	20	12	2.5	35.2	1.8	3.6	24.4	55.8	41.9	100.8	(D)	0.9	15.9

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry		1977										1972		
			All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			E ¹	Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)							Wages (million dollars)
	Euclid—Con.														
35	Machinery, except electrical --	-	58	24	3.9	63.1	2.7	5.5	39.6	132.5	116.3	248.2	4.6	4.9	132.7
354	Metalworking machinery ---	-	27	11	1.2	17.9	0.8	1.8	10.2	35.1	19.5	56.4	2.5	(NA)	(NA)
	Fairfax -----	-	28	15	1.7	21.7	1.1	2.1	11.5	37.9	41.6	79.8	1.8	1.5	21.7
3079	Findlay -----	-	69	30	7.7	113.9	4.7	9.2	56.6	261.0	331.0	589.3	14.8	6.7	139.4
	Miscellaneous plastics products-----	-	4	3	0.6	5.8	0.5	1.1	4.2	7.8	13.8	21.6	0.5	(NA)	(NA)
	Forest Park -----	-	18	8	0.8	7.1	0.5	0.9	4.1	12.7	20.9	33.6	1.8	(NA)	(NA)
	Fostoria -----	-	37	22	7.1	113.8	5.6	11.2	86.0	247.8	269.3	513.6	(D)	5.9	144.4
33	Primary metal industries -----	-	3	3	1.2	21.6	1.0	1.9	16.7	29.8	32.4	61.9	(D)	(NA)	(NA)
	Franklin -----	-	21	11	0.7	9.6	0.5	1.2	5.8	21.2	29.0	50.1	1.1	1.6	22.3
	Gallion -----	-	42	20	3.9	53.2	2.4	4.5	26.7	99.4	78.9	179.4	2.2	5.0	74.1
35	Machinery, except electrical --	-	9	6	1.8	26.5	0.9	1.8	12.2	59.0	48.9	111.3	(D)	(NA)	(NA)
	Gallipolis -----	-	14	5	0.5	6.4	0.4	0.8	4.6	16.6	24.2	40.4	(D)	(NA)	(NA)
	Garfield Heights -----	-	58	18	1.8	23.8	1.3	2.6	15.1	48.7	54.8	100.9	4.0	1.5	31.3
	Geneva -----	-	13	7	0.7	9.2	0.6	1.0	7.1	17.3	13.3	30.6	0.4	0.9	14.6
	Girard -----	-	17	9	0.9	13.9	0.7	1.4	9.2	35.7	55.8	89.5	1.2	1.1	17.2
	Greenfield -----	-	13	9	1.4	13.8	1.1	2.4	11.8	32.6	36.3	68.7	0.9	1.2	19.3
	Greenville -----	-	35	15	2.6	30.2	2.2	4.3	23.9	97.5	90.3	183.2	5.6	2.2	48.8
	Grove City -----	-	12	5	0.9	6.6	0.7	1.2	4.6	13.8	10.1	24.2	0.4	(NA)	(NA)
	Hamilton -----	-	96	39	8.2	112.9	5.5	10.7	67.7	190.0	230.1	425.4	8.6	5.8	115.4
33	Primary metal industries -----	-	5	4	0.6	7.8	0.5	1.1	6.0	12.5	10.6	23.0	(D)	0.6	9.0
34	Fabricated metal products ---	-	19	6	1.4	17.5	1.1	2.1	12.3	42.3	24.4	65.0	0.9	1.9	46.4
	Harrison -----	-	16	7	2.5	20.6	2.1	3.5	15.8	52.8	65.4	117.1	1.1	1.3	22.3
	Highland Heights -----	-	18	10	2.5	34.1	1.4	2.5	15.0	52.2	41.3	94.7	(D)	1.7	26.1
36	Electric and electronic equipment-----	-	5	4	2.0	25.3	1.2	2.2	13.4	47.3	38.1	86.7	(D)	(NA)	(NA)
	Hilliard -----	-	17	8	1.2	14.3	0.8	1.6	8.6	37.6	30.3	65.4	1.6	1.0	28.7
	Hubbard -----	-	11	4	0.6	7.2	0.5	0.8	4.8	15.1	22.2	36.9	(D)	(D)	(D)
	Independence -----	-	27	18	1.9	35.4	0.7	1.4	9.3	23.6	16.6	39.8	2.3	2.0	15.7
35	Machinery, except electrical --	-	11	7	0.5	7.7	0.4	0.8	6.0	12.5	7.7	19.8	1.8	(NA)	(NA)
	Ironton -----	-	20	6	1.4	18.2	1.2	2.0	14.7	25.1	23.7	49.6	(D)	2.3	46.6
	Jackson -----	-	18	7	1.0	9.3	0.9	1.7	7.2	28.5	22.9	52.2	2.3	0.8	17.8
	Kent -----	-	60	24	2.3	33.0	1.7	3.4	21.3	64.3	36.8	100.1	2.6	3.5	57.2
35	Machinery, except electrical --	-	27	11	0.8	12.1	0.7	1.4	9.1	21.2	10.9	32.4	(D)	1.2	17.8
	Kenton -----	-	33	15	1.4	13.7	1.1	2.1	9.7	53.6	55.3	117.2	(D)	2.3	49.6
	Lakewood -----	-	66	22	2.0	36.1	1.2	2.1	12.0	74.5	56.2	126.5	3.5	1.6	42.2
36	Electric and electronic equipment-----	E1	8	6	0.7	8.6	0.5	0.9	5.1	23.7	13.5	35.3	0.9	(NA)	(NA)
	Lancaster -----	-	80	29	9.7	116.1	5.8	13.6	75.1	240.4	160.6	393.6	17.9	9.3	134.5

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
32	Lebanon -----	-	20	8	0.5	4.3	0.4	0.7	2.8	7.2	10.2	17.3	0.5	(NA)	(NA)
	Lexington -----	-	6	5	0.7	5.0	0.5	1.1	3.4	9.1	10.2	19.0	0.4	(D)	(D)
	Lima -----	-	67	32	7.8	109.2	5.4	10.5	73.2	305.9	1 065.3	1 354.5	9.3	8.0	179.9
	Lockland -----	-	23	15	3.3	42.9	2.3	4.7	30.1	95.2	92.8	185.8	2.7	3.3	70.5
	Logan -----	-	14	8	1.3	15.8	1.1	2.3	13.0	36.3	22.6	59.0	1.3	2.4	41.9
	Stone, clay, and glass products -----	-	5	4	0.8	11.3	0.7	1.5	9.3	28.3	15.1	43.3	0.9	0.8	19.0
	London -----	-	11	5	0.7	8.2	0.6	1.1	5.8	24.6	21.6	46.3	(D)	0.9	14.6
	Macedonia -----	-	35	13	1.0	12.8	0.8	1.6	7.6	31.4	31.6	82.9	2.1	(NA)	(NA)
	Mansfield -----	-	126	56	13.1	172.2	9.2	17.9	114.5	316.6	479.0	795.6	(D)	15.8	321.1
	Machinery, except electrical --	-	22	6	1.3	17.2	0.8	1.8	10.1	38.1	32.2	69.4	0.3	1.0	20.2
35	General industrial machinery -----	-	3	3	1.0	12.9	0.6	1.2	6.9	31.8	26.9	58.1	(D)	(NA)	(NA)
3561	Pumps and pumping equipment -----	-	3	3	1.0	12.9	0.6	1.2	6.9	31.8	26.9	58.1	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	7	7	5.1	63.3	3.1	5.7	38.1	91.1	128.7	216.9	4.5	7.1	119.7
35	Maple Heights -----	-	43	14	1.8	26.8	1.4	2.8	18.9	64.2	83.0	142.9	3.0	2.1	39.9
	Marion -----	-	57	27	9.9	145.4	7.6	13.4	103.8	373.9	540.7	927.7	16.5	7.2	147.0
	Machinery, except electrical --	-	13	6	5.5	83.6	4.4	7.3	64.4	177.3	224.1	409.3	4.1	(NA)	(NA)
	Martins Ferry -----	-	16	8	1.7	26.3	1.3	2.3	18.0	92.2	176.6	269.6	1.1	2.2	31.7
	Marysville -----	-	18	11	1.8	26.5	0.7	1.3	7.2	119.7	71.4	206.6	1.4	1.0	60.5
	Mason -----	-	17	8	1.3	12.5	1.1	2.0	9.7	25.8	40.5	74.2	3.6	0.8	9.3
	Massillon -----	-	58	28	5.3	70.6	4.0	7.6	47.5	158.3	295.9	453.0	9.2	7.3	156.2
	Fabricated metal products ---	-	8	6	1.2	15.1	0.9	1.8	11.1	39.8	44.2	84.4	2.5	(NA)	(NA)
	Maumee -----	-	27	10	1.8	33.0	1.3	2.7	23.3	83.5	147.5	224.9	(D)	0.7	12.5
	Mayfield -----	-	15	10	1.3	17.5	0.6	1.4	7.1	32.3	25.1	55.0	2.5	(NA)	(NA)
35	Machinery, except electrical --	-	6	5	0.5	7.5	0.3	0.7	4.2	18.1	7.1	24.8	(D)	(NA)	(NA)
	Medina -----	-	81	40	3.9	45.1	2.7	5.2	26.6	105.2	135.7	242.7	6.2	3.2	55.0
	Mentor -----	-	113	34	6.3	98.0	4.3	8.3	59.9	174.5	152.0	322.3	6.7	4.1	69.9
	Fabricated metal products ---	-	14	5	1.2	15.1	0.8	1.8	10.4	34.5	15.9	47.4	1.8	1.1	18.9
35	Machinery, except electrical --	-	61	15	4.0	71.6	2.7	5.1	42.8	119.1	119.6	238.5	4.3	2.3	38.7
35	Miamisburg -----	-	31	16	4.8	74.5	1.8	3.5	21.5	111.4	54.4	169.0	9.0	4.0	62.6
	Middletown -----	-	59	34	14.3	269.8	9.8	19.1	170.2	492.6	612.0	1 110.1	32.8	13.7	290.4
	Millersburg -----	-	34	11	0.6	6.4	0.6	1.2	5.1	12.8	23.9	36.6	2.0	0.5	6.5
	Mogadore -----	-	11	6	0.5	5.4	0.4	0.7	3.3	11.4	8.6	19.4	0.3	0.8	23.8
	Monroe -----	-	5	4	0.7	7.5	0.5	0.8	4.7	15.0	18.2	32.8	(D)	(D)	(D)
	Montgomery -----	-	12	1	0.6	1.7	(Z)	0.1	0.3	2.9	2.5	5.4	0.1	(NA)	(NA)
	Montpeller -----	-	18	10	1.4	19.2	1.0	2.0	12.6	44.7	73.6	118.4	2.1	1.2	30.1
	Machinery, except electrical --	-	5	4	0.8	10.1	0.5	1.0	6.1	19.8	11.5	30.5	(D)	0.7	12.0

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Moraine -----	-	54	29	2.6	37.9	1.8	3.2	17.8	60.4	71.6	132.6	9.7	1.9	26.7
	Mount Gilead -----	-	13	4	1.1	14.7	0.8	1.7	9.7	30.4	26.4	57.2	0.8	(D)	(D)
	Nelsonville -----	-	12	4	0.5	3.7	0.4	0.7	2.8	8.0	6.8	14.8	0.4	(NA)	(NA)
	Newburgh Heights -----	-	12	4	0.8	13.5	0.5	1.1	9.1	24.9	28.3	52.8	1.2	1.2	21.6
	Newcomerstown -----	-	21	5	0.9	9.8	0.7	1.3	7.5	19.9	20.7	41.5	1.1	1.1	19.3
	New Lexington -----	-	11	4	0.5	6.3	0.4	0.8	4.4	12.1	8.0	19.8	0.9	(D)	(D)
	New Philadelphia -----	-	40	14	2.4	32.1	1.7	3.1	20.3	71.9	73.7	145.1	5.2	2.1	45.9
35	Machinery, except electrical --	-	8	4	1.1	16.4	0.7	1.2	10.1	40.3	30.6	70.4	1.8	(NA)	(NA)
344	Niles -----	-	40	22	2.5	39.9	1.9	3.6	27.5	78.2	136.4	212.3	5.3	2.7	50.7
	Fabricated structural metal products -----	-	11	7	0.7	11.3	0.5	0.9	7.4	25.2	28.4	53.3	0.6	(NA)	(NA)
	North Royalton -----	-	38	9	0.5	5.9	0.4	0.7	4.0	11.2	8.7	20.3	1.0	(NA)	(NA)
	Norton -----	-	13	7	0.6	7.1	0.5	0.9	5.2	12.5	13.8	26.0	0.2	(NA)	(NA)
	Norwalk -----	-	51	26	3.8	42.8	2.8	5.6	28.6	84.5	94.8	181.3	4.5	2.8	34.5
38	Instruments and related products -----	-	5	3	0.5	3.2	0.4	0.8	2.3	5.4	3.5	8.9	0.1	(NA)	(NA)
	Norwood -----	-	55	32	9.8	176.6	7.5	17.0	132.4	466.3	984.5	1 451.0	22.3	7.9	125.4
26	Paper and allied products ---	-	8	5	1.2	13.7	1.0	2.0	11.0	29.0	34.5	63.8	(D)	1.1	19.3
	Oberlin -----	-	13	4	0.7	9.7	0.4	0.7	3.5	19.5	6.9	25.5	(D)	(NA)	(NA)
	Orville -----	-	44	28	3.9	51.3	2.8	5.7	33.9	116.9	225.3	340.9	15.3	3.7	53.8
20	Food and kindred products --	-	6	5	0.7	9.3	0.5	1.0	6.2	38.2	155.6	193.6	(D)	0.7	8.6
35	Machinery, except electrical --	-	12	5	0.6	7.3	0.4	0.8	5.0	17.5	16.0	31.8	(D)	(NA)	(NA)
371	Motor vehicles and equipment -----	-	3	3	0.7	9.6	0.6	1.2	7.1	14.0	13.4	28.8	(D)	(NA)	(NA)
	Painesville -----	-	34	13	2.0	29.1	1.2	2.5	14.8	81.7	57.7	137.0	6.6	(D)	(D)
	Paulding -----	-	8	4	0.5	6.3	0.4	0.8	5.4	13.5	16.0	29.8	(D)	0.5	8.4
	Perrysburg -----	-	18	5	0.5	8.1	0.3	0.6	3.4	23.7	27.1	50.5	0.8	4.2	89.8
	Piqua -----	-	69	34	4.3	50.2	3.4	6.7	35.3	101.2	122.8	221.8	5.8	4.3	71.9
35	Machinery, except electrical --	-	14	5	1.2	16.1	0.9	1.9	10.6	32.0	25.2	57.4	1.4	1.0	18.3
	Port Clinton -----	-	25	5	1.1	14.5	1.0	1.8	11.4	23.8	30.9	54.7	1.4	1.2	18.0
	Ravenna -----	-	41	24	2.2	24.2	1.6	3.2	15.5	50.3	46.1	98.1	1.9	2.7	48.3
	Reading -----	-	24	10	2.9	46.8	1.2	2.4	15.0	109.1	73.7	181.9	6.6	3.3	95.1
	Rocky River -----	-	37	6	0.5	8.9	0.2	0.4	2.1	8.8	7.4	16.0	0.5	0.5	5.2
	Salem -----	-	58	27	4.5	58.1	3.3	6.2	38.9	119.1	88.4	201.0	4.7	4.5	63.5
34	Fabricated metal products ---	-	8	6	1.1	14.3	0.9	1.6	11.7	33.7	25.2	58.9	1.2	1.4	23.4
35	Machinery, except electrical --	-	25	8	2.1	32.3	1.3	2.6	19.0	61.9	38.7	93.7	2.3	2.0	25.2
	Sandusky -----	-	83	37	7.5	116.7	5.6	11.4	82.5	228.2	234.3	458.9	18.1	9.8	223.8
	Sebring -----	-	23	14	1.7	14.0	1.4	2.6	10.8	33.8	25.5	59.0	0.7	1.5	16.3
	Sharonville -----	-	52	24	7.7	169.7	5.9	13.4	128.4	355.9	339.9	694.1	(D)	6.3	218.0

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
		E1													
	Shelby -----	-	27	12	2.8	41.4	2.1	4.3	28.3	109.6	141.7	248.4	(D)	2.1	43.0
336	Sidney -----	-	51	25	7.2	69.2	5.6	10.9	50.2	183.9	216.8	381.9	9.7	6.3	107.4
3361	Nonferrous foundries -----	-	5	4	0.8	9.3	0.6	1.1	8.5	18.3	11.9	30.1	(D)	(NA)	(NA)
	Aluminum foundries -----	-	5	4	0.8	9.3	0.6	1.1	6.5	18.3	11.9	30.1	(D)	(NA)	(NA)
35	Machinery, except electrical --	-	24	12	4.6	37.4	3.4	6.4	25.4	99.4	141.5	242.2	6.5	4.0	68.9
	Solon -----	-	95	58	9.0	126.5	5.4	11.1	63.8	262.3	296.4	547.0	21.6	5.3	119.0
33	Primary metal industries -----	-	7	6	0.5	7.6	0.4	0.8	5.2	16.9	32.9	49.4	1.3	0.5	7.1
34	Fabricated metal products ---	-	14	7	1.3	19.0	0.9	2.1	11.0	48.9	55.7	97.8	2.4	0.7	14.2
35	Machinery, except electrical --	-	29	17	2.1	28.1	1.4	2.6	16.1	62.7	44.1	106.7	4.1	1.4	23.8
354	Metalworking machinery ---	-	10	4	0.7	7.9	0.6	1.0	5.5	19.9	5.3	25.6	(D)	(NA)	(NA)
38	Instruments and related products -----	E1	6	4	0.8	11.4	0.4	0.9	5.1	26.8	11.7	37.7	0.8	0.7	15.5
	South Euclid -----	-	37	8	0.8	10.5	0.5	1.0	6.0	16.9	15.1	33.7	1.3	1.1	16.7
	Springfield -----	-	150	64	14.3	202.9	9.8	18.6	138.0	418.4	584.8	978.7	25.9	16.2	306.7
27	Printing and publishing -----	-	13	5	0.5	6.6	0.4	0.6	4.5	13.3	6.8	20.2	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	25	12	0.9	10.5	0.6	1.2	6.0	16.8	16.3	33.5	0.7	(NA)	(NA)
35	Machinery, except electrical --	-	39	16	3.4	46.4	2.2	4.3	27.2	125.3	79.7	195.4	3.9	2.7	46.2
	Stow -----	-	34	11	1.4	20.0	1.0	2.0	11.7	40.1	38.6	77.9	3.0	1.8	35.0
	Strongsville -----	-	48	22	2.3	33.9	1.2	2.5	15.6	62.9	49.9	111.7	2.2	1.1	23.5
35	Machinery, except electrical --	-	14	7	1.3	19.4	0.7	1.5	11.0	33.4	29.2	61.9	1.0	0.7	13.6
	Swanton -----	-	14	6	0.8	9.0	0.7	1.2	6.1	24.7	31.9	56.4	(D)	0.5	10.0
	Tallmadge -----	-	34	16	1.3	17.1	0.9	1.8	9.7	32.5	23.4	56.0	1.5	1.4	22.7
35	Machinery, except electrical --	-	18	9	0.8	12.3	0.5	1.0	6.7	21.9	16.2	38.3	0.9	0.6	13.3
	Tiffin -----	-	36	19	4.8	63.1	3.6	7.6	44.3	140.4	119.1	256.5	8.3	5.2	100.2
	Tipp City -----	-	35	15	2.3	27.2	1.4	3.1	17.7	56.2	47.6	103.0	2.9	1.8	24.5
	Toledo -----	-	641	238	54.8	919.8	35.6	68.7	538.6	1 957.2	2 772.0	4 705.2	107.4	55.6	1 117.9
20	Food and kindred products --	-	26	11	2.0	29.7	1.3	2.9	20.0	133.9	236.3	369.1	6.5	2.4	82.7
27	Printing and publishing -----	-	101	15	2.0	31.1	1.2	2.2	17.3	89.1	21.9	110.8	3.5	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	E1	26	12	0.7	7.7	0.5	1.1	5.2	17.2	11.7	28.6	0.6	(NA)	(NA)
3079	Miscellaneous plastics products -----	E2	23	9	0.5	4.9	0.4	0.8	3.4	10.7	9.0	19.7	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	30	11	4.7	77.3	3.9	7.7	64.4	148.4	105.9	249.0	(D)	3.0	82.8
33	Primary metal industries -----	-	23	17	4.1	62.9	3.4	6.6	49.8	114.9	251.4	386.8	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	95	42	4.9	69.0	3.9	7.2	50.4	130.2	196.4	326.1	6.2	(NA)	(NA)
3469	Metal stampings, n.e.c. --	-	15	9	1.3	17.1	1.1	1.9	12.9	30.1	30.1	61.1	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	13	7	0.5	7.5	0.4	0.8	5.5	11.7	21.0	32.6	0.7	(NA)	(NA)
35	Machinery, except electrical --	-	130	37	4.9	81.2	3.1	6.3	47.0	179.9	87.3	270.8	5.0	(NA)	(NA)

See footnotes at end of table.

Table 8. **Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.**

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Toledo—Con.														
35	Machinery, except electrical—Con.														
354	Metalworking machinery ---	-	51	16	1.1	19.4	0.9	2.0	14.9	26.3	14.8	41.0	1.4	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures -----	-	40	12	0.9	16.1	0.7	1.7	13.1	23.1	11.3	33.2	1.2	(NA)	(NA)
356	General industrial machinery -----	-	23	7	2.2	37.3	1.1	2.3	18.4	65.5	44.6	110.3	(D)	(NA)	(NA)
38	Instruments and related products -----	-	18	4	0.8	8.5	0.6	1.1	5.4	19.6	10.1	29.6	0.5	(NA)	(NA)
-	Administrative and auxiliary --	-	31	22	7.8	165.4	-	-	-	-	-	-	-	(NA)	(NA)
	Troy -----	-	41	19	7.1	96.2	4.2	8.9	52.2	195.1	236.0	420.0	5.4	4.9	91.6
	Twinsburg -----	-	34	16	5.6	96.2	4.8	9.5	77.3	156.5	141.8	295.8	5.4	(D)	(D)
	Upper Sandusky -----	-	31	15	1.9	19.1	1.7	3.1	15.4	40.0	46.8	67.7	(D)	1.6	23.9
	Urbana -----	-	36	14	2.7	29.2	2.2	4.3	22.4	107.9	71.3	170.5	(D)	2.9	70.2
	Vandellia -----	-	24	12	4.4	79.2	3.6	7.4	64.5	185.0	159.9	342.6	11.6	3.1	74.9
	Van Wert -----	-	31	16	4.0	55.4	3.0	6.0	37.1	130.0	173.6	300.6	4.1	3.3	73.0
	Walton Hills -----	-	31	17	5.6	113.6	4.5	9.7	92.2	199.8	247.4	442.3	18.5	(D)	(D)
	Warren -----	-	69	27	17.4	299.3	13.8	26.4	225.6	703.2	382.6	1 067.4	30.4	21.2	463.0
	Warrensville Heights -----	-	53	23	2.1	32.8	1.3	2.3	12.9	36.6	79.7	116.4	1.7	2.3	39.1
	Washington -----	-	36	15	2.6	32.3	1.9	3.7	21.4	78.9	104.0	180.4	(D)	2.0	37.0
	Wauseon -----	-	29	15	2.0	20.7	1.6	3.1	14.7	44.2	47.8	91.1	2.8	2.3	30.6
	Waverly City -----	-	12	5	0.7	7.1	0.6	1.3	5.5	13.7	16.6	30.0	(D)	(D)	(D)
	Wellston -----	-	14	6	1.4	13.3	1.1	2.1	9.7	25.5	77.8	103.1	1.7	0.7	12.1
	Wellsville -----	-	8	3	0.5	5.6	0.4	0.9	4.3	9.7	4.4	14.1	(D)	(D)	(D)
	West Carrollton -----	-	28	12	1.9	30.8	1.4	3.2	22.6	53.3	64.1	116.3	(D)	2.0	33.1
	Westerville -----	-	20	12	1.0	11.5	0.6	1.1	7.3	24.0	23.8	47.2	0.9	0.8	16.1
	Westlake -----	-	38	14	1.6	19.3	1.1	2.2	12.2	36.0	47.2	62.0	2.4	1.3	25.2
34	Fabricated metal products ---	-	7	5	0.8	10.1	0.6	1.1	6.1	20.3	30.1	49.7	0.5	0.6	12.0
	Wickliffe -----	-	56	19	4.8	67.7	2.6	5.3	31.5	132.1	110.8	246.1	5.0	5.6	69.9
34	Fabricated metal products ---	-	13	5	0.6	8.8	0.5	1.0	5.7	25.0	36.0	60.4	0.6	(NA)	(NA)
35	Machinery, except electrical --	-	25	7	1.3	18.4	0.8	1.7	10.3	31.4	23.7	58.1	1.8	1.1	17.7
	Willoughby -----	-	114	53	5.4	70.8	3.7	7.5	41.4	152.6	107.6	260.1	5.7	4.6	70.0
34	Fabricated metal products ---	-	20	16	1.2	14.9	0.9	2.0	10.8	39.1	33.1	70.7	1.7	0.5	7.6
35	Machinery, except electrical --	-	46	16	1.1	15.8	0.8	1.7	11.0	27.1	16.8	44.3	1.2	0.8	12.4
	Wilmington -----	-	29	13	2.7	30.4	2.1	4.2	21.8	70.2	53.7	122.1	3.2	1.7	28.6
	Woodlawn -----	-	46	24	1.9	24.4	1.2	2.3	13.0	49.7	53.6	102.2	3.7	1.7	24.5
34	Fabricated metal products ---	-	8	4	0.5	7.3	0.3	0.6	3.6	18.9	11.9	31.3	0.8	(NA)	(NA)
	Wooster -----	-	43	21	5.7	72.7	4.1	7.7	46.9	164.2	143.5	307.7	16.2	5.3	113.6
34	Fabricated metal products ---	-	9	5	1.4	16.2	1.1	2.0	11.4	33.8	30.8	64.1	0.9	(NA)	(NA)
	Worthington -----	-	55	15	2.3	36.4	1.0	1.8	13.1	106.6	64.3	166.9	5.8	1.5	54.9
-	Administrative and auxiliary --	-	4	3	0.5	8.8	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
34	Xenia -----	-	26	11	0.7	7.9	0.6	1.1	5.1	16.7	29.0	47.5	1.1	0.9	17.3
	Yellow Springs -----	-	8	5	1.2	16.9	0.9	1.7	11.0	28.3	13.0	41.2	1.5	0.9	14.6
	Fabricated metal products ---	-	23	11	1.1	16.7	0.8	1.6	11.0	28.6	42.4	68.9	1.4	1.4	19.4
	Zanesville -----	-	67	29	6.5	68.1	5.2	9.9	50.0	165.9	197.6	362.6	11.1	7.3	116.6

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO ²
OHIO	17354	1094	5	84	369	854	307	408	2081	705	163	863	55	1081	659	2376	3683	647	468	331	590	531
1 TO 4 EMPLOYEES	5677	335	2	23	127	441	102	56	1037	200	48	194	20	304	113	563	1358	156	133	114	271	80
5 TO 9 EMPLOYEES	2350	152	1	11	45	125	43	44	294	106	31	91	8	165	53	301	584	69	50	46	75	56
10 TO 19 EMPLOYEES	2599	139	1	11	52	113	51	50	267	115	22	100	4	209	90	399	630	65	61	42	98	81
20 TO 49 EMPLOYEES	2840	187	1	10	68	103	48	81	247	120	35	175	10	189	129	492	552	111	48	56	76	103
50 TO 99 EMPLOYEES	1564	104	1	8	26	51	21	71	125	65	13	128	3	96	92	288	239	180	40	26	28	69
100 TO 249 EMPLOYEES	1315	112	1	14	35	18	23	78	77	53	8	103	2	79	82	207	179	72	46	25	33	68
250 TO 499 EMPLOYEES	547	48	1	3	11	1	13	20	15	30	1	14	7	19	49	80	74	40	39	11	7	36
500 TO 999 EMPLOYEES	263	10	1	4	3	2	4	5	12	12	4	14	1	13	26	27	48	29	20	17	1	21
1000 TO 2499 EMPLOYEES	137	7	1	2	2	2	3	1	6	1	1	10	1	5	13	10	22	20	14	4	1	14
2500 EMPLOYEES AND OVER	62	1	1	1	1	1	1	1	1	1	1	5	1	2	12	9	7	5	17	1	1	3
ADAMS COUNTY	29	2	1	1	1	1	1	1	3	1	1	1	1	1	1	1	3	1	1	1	1	1
1 TO 19 EMPLOYEES	24	2	1	1	1	1	1	1	3	1	1	1	1	1	1	1	2	1	1	1	1	1
20 TO 99 EMPLOYEES	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100 TO 249 EMPLOYEES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ALLEN COUNTY	158	16	1	1	5	9	1	1	20	7	5	5	1	9	1	19	31	6	10	1	6	3
1 TO 19 EMPLOYEES	86	8	1	1	3	2	1	2	16	4	4	3	1	4	1	7	20	3	5	1	3	2
20 TO 99 EMPLOYEES	37	8	1	1	3	2	1	1	3	2	1	2	1	5	1	6	7	1	1	1	1	1
100 TO 249 EMPLOYEES	21	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ASHLAND COUNTY	81	7	1	1	1	4	1	4	13	2	1	7	1	5	4	2	20	2	3	1	4	3
1 TO 19 EMPLOYEES	47	5	1	1	1	4	1	2	11	2	1	3	1	3	3	1	13	1	1	1	2	1
20 TO 99 EMPLOYEES	17	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	4	1	1	1	1	2
100 TO 249 EMPLOYEES	17	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	10	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	2	1	1	1	1	1
ASHTABULA COUNTY	167	5	1	2	1	15	3	2	12	12	1	23	6	10	5	26	26	8	4	1	5	3
1 TO 19 EMPLOYEES	90	2	1	2	1	11	2	1	8	3	1	7	4	7	2	13	24	3	3	1	3	1
20 TO 99 EMPLOYEES	41	1	1	1	1	4	1	1	3	1	1	5	1	2	2	9	1	1	1	1	1	2
100 TO 249 EMPLOYEES	19	1	1	1	1	1	1	1	1	1	1	6	1	1	1	2	1	1	1	1	1	1
250 EMPLOYEES AND OVER	17	1	1	1	1	1	1	1	1	1	1	5	1	1	2	1	1	1	1	1	1	1
ATHENS COUNTY	44	5	1	1	1	13	1	1	6	1	1	1	1	7	1	2	3	2	1	1	2	1
1 TO 19 EMPLOYEES	32	1	1	1	1	12	1	1	3	1	1	1	1	6	1	1	1	2	1	1	1	1
20 TO 99 EMPLOYEES	9	1	1	1	1	1	1	1	2	1	1	3	1	1	1	1	1	1	1	1	1	1
100 TO 249 EMPLOYEES	2	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
AUGLAIZE COUNTY	75	9	1	1	1	4	1	1	10	1	1	4	1	6	2	12	19	1	2	1	1	1
1 TO 19 EMPLOYEES	43	3	1	1	3	3	1	1	7	1	1	1	1	6	1	6	10	1	2	1	1	1
20 TO 99 EMPLOYEES	16	1	1	1	1	1	1	1	3	1	1	2	1	1	1	4	5	1	1	1	1	1
100 TO 249 EMPLOYEES	12	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1
250 EMPLOYEES AND OVER	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1
BELMONT COUNTY	64	9	1	1	2	5	1	1	7	2	1	1	1	10	3	9	5	1	1	1	4	3
1 TO 19 EMPLOYEES	42	6	1	1	4	4	1	1	6	2	1	1	1	7	1	3	3	1	1	1	4	3
20 TO 99 EMPLOYEES	10	2	1	1	1	1	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	1
100 TO 249 EMPLOYEES	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BROWN COUNTY	23	2	1	1	1	3	1	1	3	1	1	1	2	1	1	1	6	1	1	2	1	1
1 TO 19 EMPLOYEES	15	1	1	1	1	2	1	1	3	1	1	1	1	1	1	1	5	1	1	2	1	1
20 TO 99 EMPLOYEES	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100 TO 249 EMPLOYEES	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BUTLER COUNTY	238	7	1	1	2	13	7	18	25	8	2	7	1	25	11	39	51	4	3	1	8	8
1 TO 19 EMPLOYEES	136	5	1	1	9	4	1	5	18	4	2	3	1	18	3	22	38	1	2	1	6	6
20 TO 99 EMPLOYEES	59	2	1	1	4	4	1	5	5	4	4	4	1	7	3	10	8	1	1	1	2	2
100 TO 249 EMPLOYEES	18	1	1	1	1	2	2	7	2	1	1	1	1	1	2	3	2	2	1	1	1	1
250 EMPLOYEES AND OVER	25	1	1	1	1	1	1	1	1	1	1	1	1	1	2	5	2	2	1	1	1	1
CARROLL COUNTY	36	1	1	1	1	1	1	1	2	2	1	5	1	10	1	6	4	4	1	1	3	1
1 TO 19 EMPLOYEES	18	1	1	1	1	1	1	1	1	1	1	3	1	4	1	2	3	3	1	1	1	1
20 TO 99 EMPLOYEES	12	1	1	1	1	1	1	1	1	1	1	2	1	4	1	1	1	1	1	1	1	1
100 TO 249 EMPLOYEES	6	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major group descriptions are: 20---food and kindred products; 21---tobacco manufactures; 22---textile mill products; 23---apparel and other textile products; 24---lumber and wood products; 25---furniture and fixtures; 26---paper and allied products; 27---printing and publishing; 28---chemicals and allied products; 29---petroleum and coal products; 30---rubber and miscellaneous plastics products; 31---leather and leather products; 32---stone, clay, and glass products; 33---primary metal industries; 34---fabricated metal products; 35---machinery, except electrical; 36---electric and electronic equipment; 37---transportation equipment; 38---instruments and related products; 39---miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				38	39	CAO's
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37					
CHAMPAIGN COUNTY	50	5	-	-	-	1	1	-	3	5	3	-	3	-	4	-	10	7	4	2	-	-	1	1
1 TO 19 EMPLOYEES	33	4	-	-	-	1	1	-	1	4	1	-	1	-	4	-	8	4	1	1	-	-	1	1
20 TO 99 EMPLOYEES	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLARK COUNTY	212	11	-	-	7	9	1	4	19	2	1	8	6	14	9	32	62	4	7	4	8	4	4	4
1 TO 19 EMPLOYEES	129	8	-	-	3	6	-	1	11	2	1	7	4	8	4	16	42	3	2	2	6	3	3	3
20 TO 99 EMPLOYEES	60	1	-	-	3	3	1	3	6	-	-	-	1	1	6	2	13	1	3	1	1	1	1	1
100 TO 249 EMPLOYEES	15	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLERMONT COUNTY	83	1	-	1	-	3	1	4	13	5	-	6	-	9	1	6	20	3	3	1	1	3	3	3
1 TO 19 EMPLOYEES	68	1	-	-	-	3	1	3	13	5	-	5	-	9	1	1	16	2	2	1	2	3	3	3
20 TO 99 EMPLOYEES	11	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLINTON COUNTY	54	3	-	-	1	3	-	-	4	1	1	5	-	2	3	13	9	2	3	2	1	-	-	-
1 TO 19 EMPLOYEES	25	3	-	-	1	2	-	-	2	1	1	2	-	-	2	1	6	2	2	1	-	-	-	-
20 TO 99 EMPLOYEES	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COLUMBIANA COUNTY	204	9	-	-	3	15	8	5	23	3	1	2	-	3	12	24	55	3	2	4	3	1	1	1
1 TO 19 EMPLOYEES	127	9	-	-	3	14	4	3	15	2	1	1	-	17	6	11	36	-	2	3	3	1	1	1
20 TO 99 EMPLOYEES	52	-	-	-	-	1	2	2	6	1	-	-	-	2	1	9	10	2	-	1	-	-	-	-
100 TO 249 EMPLOYEES	15	-	-	-	-	-	-	-	2	-	-	-	-	2	1	2	5	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COSHOCTON COUNTY	55	3	-	2	3	9	1	2	8	1	1	3	-	4	3	5	5	1	-	-	1	1	2	2
1 TO 19 EMPLOYEES	31	2	-	1	1	8	1	1	5	1	-	1	-	4	-	1	4	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	16	1	-	1	1	1	-	-	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRAWFORD COUNTY	104	3	-	-	5	4	1	2	15	-	1	7	-	5	6	16	22	5	4	1	5	2	2	2
1 TO 19 EMPLOYEES	61	2	-	-	3	3	1	2	10	-	-	2	-	2	5	10	10	2	2	1	4	1	1	1
20 TO 99 EMPLOYEES	25	1	-	-	1	1	-	-	5	-	-	2	-	-	-	5	5	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CUYAHOGA COUNTY	3643	148	-	22	91	61	69	71	462	176	33	108	6	104	162	644	877	166	86	82	132	143	143	143
1 TO 19 EMPLOYEES	2287	89	-	15	56	50	47	25	370	113	14	63	6	67	71	352	617	170	51	51	100	60	60	60
20 TO 99 EMPLOYEES	944	36	-	23	11	16	16	30	71	46	16	35	-	30	58	218	192	55	15	20	29	40	40	40
100 TO 249 EMPLOYEES	249	15	-	3	7	4	15	15	15	9	2	8	-	5	17	23	41	20	8	8	2	19	19	19
250 EMPLOYEES AND OVER	163	8	-	1	5	-	2	1	6	8	1	2	-	2	16	23	27	21	12	3	1	24	24	24
DARKE COUNTY	78	6	1	-	7	5	2	1	8	3	1	6	1	8	4	2	15	2	3	1	1	1	1	1
1 TO 19 EMPLOYEES	51	5	1	-	3	4	2	1	5	2	1	2	1	7	4	1	11	-	1	1	1	1	1	1
20 TO 99 EMPLOYEES	20	1	-	-	3	1	-	-	3	1	-	4	-	-	-	-	3	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DEFIANCE COUNTY	54	7	-	-	-	5	-	-	7	-	-	-	-	6	2	14	6	2	4	-	1	-	-	-
1 TO 19 EMPLOYEES	32	3	-	-	-	4	-	-	5	-	-	-	-	3	1	2	5	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	13	3	-	-	-	1	-	-	2	-	-	-	-	-	-	-	1	1	2	-	-	-	-	-
100 TO 249 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DELAWARE COUNTY	63	2	-	-	2	3	-	1	4	3	1	-	-	9	2	5	17	4	4	1	3	2	2	2
1 TO 19 EMPLOYEES	35	1	-	-	1	1	-	-	3	2	1	-	-	7	-	1	13	2	4	-	2	2	2	2
20 TO 99 EMPLOYEES	18	1	-	-	1	2	-	-	1	2	-	-	-	2	2	1	3	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ERIE COUNTY	137	16	-	2	1	5	2	8	15	4	1	9	-	11	6	13	27	4	6	1	4	2	2	2
1 TO 19 EMPLOYEES	79	8	-	1	1	4	1	3	13	2	-	4	-	9	1	7	16	1	5	1	3	1	1	1
20 TO 99 EMPLOYEES	32	5	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	18	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 -Con.

(Major group descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				38	39	CAO's
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37					
FAIRFIELD COUNTY	101	13	-	1	-	5	-	4	8	-	-	-	1	1	15	1	14	23	6	-	5	1	1	3
1 TO 19 EMPLOYEES	55	10	-	-	-	4	-	-	6	-	-	-	1	-	8	-	5	15	1	-	3	1	-	-
20 TO 99 EMPLOYEES	20	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	6	4	-	-	2	-	1	1
100 TO 249 EMPLOYEES	17	1	-	-	-	1	-	2	1	-	-	-	-	1	3	-	1	2	4	3	-	-	-	1
250 EMPLOYEES AND OVER	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FAYETTE COUNTY	40	6	-	-	1	6	-	2	4	1	-	7	-	2	1	3	4	2	1	-	-	-	-	-
1 TO 19 EMPLOYEES	23	2	-	-	1	3	-	1	3	-	-	3	-	2	1	1	3	2	2	1	-	-	-	-
20 TO 99 EMPLOYEES	8	2	-	-	-	2	-	1	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	1	-	-	-	1	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
FRANKLIN COUNTY	1095	85	-	4	35	26	24	24	206	64	5	42	4	59	27	114	156	48	31	37	53	51	-	-
1 TO 19 EMPLOYEES	699	35	-	2	30	21	15	13	160	41	2	23	3	33	15	67	103	32	21	22	39	22	-	-
20 TO 99 EMPLOYEES	271	31	-	-	5	5	5	9	36	16	3	14	-	20	8	33	35	13	3	11	10	14	-	-
100 TO 249 EMPLOYEES	67	11	-	1	-	-	2	2	6	6	-	2	-	3	1	8	10	1	3	-	4	-	8	-
250 EMPLOYEES AND OVER	58	8	-	-	-	-	2	-	4	1	-	3	1	3	3	6	8	2	4	-	-	-	-	-
FULTON COUNTY	103	13	-	-	-	2	8	4	12	4	1	4	1	9	8	14	10	1	5	1	4	2	-	-
1 TO 19 EMPLOYEES	56	7	-	-	-	1	3	2	11	3	1	1	1	8	3	4	4	-	2	-	4	1	-	-
20 TO 99 EMPLOYEES	29	3	-	-	-	3	1	-	1	-	-	3	-	1	4	7	3	1	-	1	-	-	-	-
100 TO 249 EMPLOYEES	11	2	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	1	-	-	-	-	1	-
250 EMPLOYEES AND OVER	7	1	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GALLIA COUNTY	24	5	1	-	-	7	1	-	5	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	16	2	-	-	-	7	1	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	3	1	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GEAUGA COUNTY	151	8	-	-	2	14	2	2	15	4	1	24	-	10	2	18	29	9	-	4	4	3	-	-
1 TO 19 EMPLOYEES	101	6	-	-	1	13	2	2	11	4	1	10	-	4	2	15	22	4	-	-	3	1	-	-
20 TO 99 EMPLOYEES	33	2	-	1	1	1	-	-	1	-	-	6	-	5	-	3	6	4	-	2	-	2	-	-
100 TO 249 EMPLOYEES	10	-	-	-	-	-	-	-	3	-	-	3	-	1	-	-	1	1	-	-	1	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-
GREENE COUNTY	104	4	-	2	2	10	4	2	10	4	2	5	-	6	4	14	20	5	5	3	1	1	1	-
1 TO 19 EMPLOYEES	64	2	-	1	2	7	3	1	6	2	2	1	-	4	1	8	15	4	-	1	1	1	-	-
20 TO 99 EMPLOYEES	30	1	-	-	3	1	2	-	4	2	-	3	-	1	1	5	5	-	-	1	1	-	-	-
100 TO 249 EMPLOYEES	7	1	-	1	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
GUERNSEY COUNTY	55	-	-	-	-	3	-	-	3	1	-	15	-	11	1	3	13	2	1	-	-	1	1	-
1 TO 19 EMPLOYEES	29	-	-	-	-	-	-	-	2	-	-	8	-	9	-	2	9	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES	16	-	-	-	-	1	-	-	1	-	-	2	-	1	-	1	3	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAMILTON COUNTY	1709	128	-	11	48	40	39	68	304	98	18	57	9	59	47	196	284	67	27	39	87	83	-	-
1 TO 19 EMPLOYEES	1006	58	-	7	23	28	27	26	215	51	13	34	5	41	19	104	185	29	16	22	65	38	-	-
20 TO 99 EMPLOYEES	456	35	-	2	13	10	27	28	67	23	3	15	1	16	21	68	62	23	6	12	17	27	-	-
100 TO 249 EMPLOYEES	144	15	-	1	5	2	3	10	14	12	1	16	1	2	4	15	22	8	1	15	4	13	-	-
250 EMPLOYEES AND OVER	103	20	-	1	7	-	2	4	8	12	1	2	2	-	3	9	15	7	4	-	1	15	-	-
HANCOCK COUNTY	92	16	-	1	2	1	-	3	8	4	4	12	-	5	1	7	17	2	1	3	1	4	-	-
1 TO 19 EMPLOYEES	50	8	-	-	-	-	-	-	7	2	2	3	-	-	-	4	14	-	-	2	-	-	-	-
20 TO 99 EMPLOYEES	27	6	-	-	1	1	-	-	1	-	-	4	-	1	-	1	3	-	-	1	1	3	-	-
100 TO 249 EMPLOYEES	10	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	2	-	-	-	-	-	-
HARDIN COUNTY	51	5	-	-	-	7	1	1	4	2	1	-	-	4	1	6	6	2	8	1	2	-	-	-
1 TO 19 EMPLOYEES	30	3	-	-	-	3	1	-	3	1	1	-	-	3	1	4	5	1	3	1	1	-	-	-
20 TO 99 EMPLOYEES	14	-	-	-	-	4	-	-	1	-	-	-	-	1	-	1	1	1	1	1	1	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HARRISON COUNTY	23	1	-	-	-	11	1	1	2	1	-	-	-	2	-	1	1	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	17	1	-	-	-	10	-	-	1	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				39	CAO's
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38			
HENRY COUNTY	55	8	1	-	-	3	-	1	2	2	1	5	-	4	3	11	10	-	2	-	1	1	
1 TO 19 EMPLOYEES	36	4	1	-	-	3	-	1	2	2	1	1	-	4	3	6	9	-	-	-	-	-	
20 TO 99 EMPLOYEES	13	3	-	-	-	-	-	-	-	-	-	3	-	-	2	3	1	-	1	-	-	-	
100 TO 249 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HIGHLAND COUNTY	37	3	-	3	8	1	-	7	1	1	-	1	1	-	2	6	2	-	-	1	1	-	
1 TO 19 EMPLOYEES	17	2	-	-	1	7	-	-	4	1	-	-	-	-	3	1	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	10	-	-	-	1	1	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	4	-	-	-	1	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	6	1	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	1	-	-	
HOCKING COUNTY	34	1	-	-	17	-	1	2	-	-	1	1	-	5	1	2	1	-	-	-	1	1	
1 TO 19 EMPLOYEES	22	1	-	-	16	-	-	-	1	-	-	-	-	1	1	1	1	-	-	-	1	1	
20 TO 99 EMPLOYEES	6	-	-	-	1	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HOLMES COUNTY	74	11	-	1	28	1	-	2	1	1	-	6	2	3	1	3	9	1	2	1	1	-	
1 TO 19 EMPLOYEES	43	6	-	-	17	-	-	2	1	-	-	2	1	1	1	1	7	-	1	1	1	-	
20 TO 99 EMPLOYEES	24	5	-	1	10	-	-	-	-	-	-	1	1	2	1	2	1	1	1	1	1	-	
100 TO 249 EMPLOYEES	6	-	-	1	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HURON COUNTY	102	7	-	2	5	2	1	14	4	-	8	-	-	9	3	7	17	3	7	5	3	1	
1 TO 19 EMPLOYEES	52	2	-	-	1	3	-	10	2	-	1	-	-	7	1	4	12	2	3	2	2	-	
20 TO 99 EMPLOYEES	27	1	-	1	2	1	1	3	2	-	4	-	-	2	2	3	3	-	-	1	1	-	
100 TO 249 EMPLOYEES	11	3	-	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2	1	1	-	
250 EMPLOYEES AND OVER	12	1	-	-	1	-	1	1	-	-	-	-	-	-	-	-	2	1	2	1	1	-	
JACKSON COUNTY	54	3	-	-	19	1	-	2	2	-	4	-	-	13	5	-	2	-	-	-	1	1	
1 TO 19 EMPLOYEES	36	-	-	-	17	-	-	1	1	-	2	-	-	9	3	-	1	-	-	-	1	1	
20 TO 99 EMPLOYEES	11	1	-	-	2	1	-	-	-	-	-	-	-	4	2	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	4	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JEFFERSON COUNTY	68	6	-	-	10	1	3	9	6	2	2	-	-	12	7	6	4	1	1	-	2	1	
1 TO 19 EMPLOYEES	40	3	-	-	9	-	2	2	1	-	-	-	-	6	1	2	4	1	1	-	2	1	
20 TO 99 EMPLOYEES	18	3	-	-	1	-	-	-	-	-	-	-	-	5	3	2	2	-	-	-	-	-	
100 TO 249 EMPLOYEES	7	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KNOX COUNTY	42	3	-	-	3	-	2	7	6	1	-	3	-	4	-	7	5	4	2	-	-	-	
1 TO 19 EMPLOYEES	25	2	-	-	1	-	-	1	-	-	-	3	-	2	-	5	2	2	1	-	-	-	
20 TO 99 EMPLOYEES	9	1	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-	-	-	
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LAKE COUNTY	486	4	-	2	8	4	5	30	22	4	23	-	-	20	15	80	197	21	14	10	14	11	
1 TO 19 EMPLOYEES	315	2	-	1	8	4	2	26	11	2	10	-	-	16	8	40	149	13	9	7	8	1	
20 TO 99 EMPLOYEES	121	1	-	-	-	-	-	2	6	2	11	-	-	2	1	27	39	3	4	2	4	5	
100 TO 249 EMPLOYEES	35	1	-	1	-	-	-	2	2	-	-	-	-	-	2	1	10	4	1	1	1	1	
250 EMPLOYEES AND OVER	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	
LAWRENCE COUNTY	52	-	-	-	2	-	-	6	3	-	3	-	-	15	3	4	10	-	2	2	1	1	
1 TO 19 EMPLOYEES	36	-	-	-	-	-	-	1	-	-	-	-	-	10	1	2	8	-	2	2	-	-	
20 TO 99 EMPLOYEES	8	-	-	-	-	-	-	-	-	-	-	-	-	4	-	1	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LICKING COUNTY	133	9	-	2	11	-	4	18	5	2	13	-	-	6	3	11	23	6	6	1	6	5	
1 TO 19 EMPLOYEES	87	5	-	2	8	-	-	16	4	1	6	-	-	2	3	5	21	2	4	1	4	4	
20 TO 99 EMPLOYEES	26	1	-	-	3	-	-	1	1	-	3	-	-	3	1	4	1	2	-	1	1	1	
100 TO 249 EMPLOYEES	14	2	-	-	-	-	-	1	-	-	-	-	-	1	-	-	1	1	-	-	-	-	
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LOGAN COUNTY	54	4	-	1	3	1	-	7	1	1	3	-	-	2	3	11	6	3	4	-	2	-	
1 TO 19 EMPLOYEES	34	4	-	-	2	1	-	4	1	1	1	-	-	2	2	-	3	2	3	-	2	-	
20 TO 99 EMPLOYEES	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electronic and electric equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
LORAIN COUNTY.	341	26	-	-	4	6	2	1	30	8	3	21	-	19	20	67	77	16	10	8	16	7
1 TO 19 EMPLOYEES.	217	18	-	-	2	-	2	-	25	4	2	11	-	13	10	33	60	10	2	4	12	3
20 TO 99 EMPLOYEES.	70	-	-	-	-	-	-	-	3	2	1	5	-	5	2	21	12	5	-	1	4	2
100 TO 249 EMPLOYEES.	28	1	-	-	2	-	-	-	1	-	-	-	-	-	4	6	4	1	3	2	1	1
250 EMPLOYEES AND OVER.	26	-	-	-	-	-	-	-	-	2	-	-	-	-	4	7	4	1	5	1	-	-
LUCAS COUNTY.	767	32	-	4	19	23	11	17	109	28	14	30	2	42	31	112	162	22	28	19	25	37
1 TO 19 EMPLOYEES.	495	20	-	2	15	18	7	6	94	16	7	18	-	28	9	61	122	15	12	15	19	11
20 TO 99 EMPLOYEES.	45	5	-	-	4	4	7	13	13	7	3	11	2	9	11	35	33	5	10	2	4	12
100 TO 249 EMPLOYEES.	181	6	-	-	-	-	4	-	1	3	2	1	-	2	3	5	9	2	1	1	1	8
250 EMPLOYEES AND OVER.	46	1	-	-	-	1	-	-	1	2	2	-	-	3	6	7	5	1	5	1	1	-
MADISON COUNTY.	28	2	-	1	-	1	-	-	6	-	-	2	-	3	3	1	4	1	1	1	-	2
1 TO 19 EMPLOYEES.	13	2	-	-	-	-	-	-	2	-	-	-	-	2	-	1	1	-	1	-	-	-
20 TO 99 EMPLOYEES.	10	-	-	-	-	-	-	-	4	-	-	1	-	-	-	-	2	1	1	1	-	-
100 TO 249 EMPLOYEES.	4	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAHONING COUNTY.	357	25	-	2	10	8	15	4	31	8	2	19	1	33	21	61	74	8	9	7	12	7
1 TO 19 EMPLOYEES.	221	14	-	2	5	6	11	2	27	6	2	12	1	10	5	32	52	12	4	6	11	11
20 TO 99 EMPLOYEES.	91	8	-	1	2	2	2	2	3	2	-	15	-	10	8	24	17	2	2	1	2	2
100 TO 249 EMPLOYEES.	21	2	-	4	-	-	2	-	1	-	-	1	-	2	3	2	3	2	1	-	1	2
250 EMPLOYEES AND OVER.	24	1	-	-	-	-	2	-	-	-	-	-	-	-	5	2	3	3	2	-	-	-
MARION COUNTY.	100	12	-	-	3	1	-	2	10	5	2	4	-	6	10	10	26	2	3	-	3	1
1 TO 19 EMPLOYEES.	56	7	-	-	1	1	-	-	9	2	1	1	-	2	5	3	19	-	1	-	3	1
20 TO 99 EMPLOYEES.	27	2	-	2	-	-	1	-	1	2	-	2	-	4	4	6	2	1	-	-	1	-
100 TO 249 EMPLOYEES.	8	2	-	-	-	-	-	-	-	1	-	-	-	-	-	1	3	1	2	-	-	-
250 EMPLOYEES AND OVER.	9	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	2	-	-	-	-	-
MEDINA COUNTY.	195	9	-	-	2	6	1	4	20	12	3	12	-	15	9	32	37	7	3	11	8	4
1 TO 19 EMPLOYEES.	118	5	-	2	3	3	1	2	15	8	1	5	-	9	3	20	26	3	2	9	3	2
20 TO 99 EMPLOYEES.	59	3	-	2	3	1	2	2	4	3	2	6	-	4	5	8	9	2	1	1	3	2
100 TO 249 EMPLOYEES.	12	1	-	-	-	-	-	-	1	1	-	1	-	2	-	2	2	1	-	1	2	-
250 EMPLOYEES AND OVER.	6	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	1	-	-	-	-
MEIGS COUNTY.	15	2	-	-	6	-	-	-	2	-	-	-	-	-	-	1	1	1	2	-	-	-
1 TO 19 EMPLOYEES.	10	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	1	1	-	-	-
20 TO 99 EMPLOYEES.	5	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-
MERCER COUNTY.	63	10	-	-	1	3	3	1	9	-	-	2	-	8	2	9	10	-	3	1	-	1
1 TO 19 EMPLOYEES.	43	4	-	-	3	2	1	7	1	-	-	2	-	6	1	9	5	-	2	1	-	1
20 TO 99 EMPLOYEES.	14	4	-	-	1	-	-	-	1	-	-	-	-	2	1	3	3	-	2	1	-	-
100 TO 249 EMPLOYEES.	2	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	4	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	1	-	1	-	-	-
MIAMI COUNTY.	177	8	-	2	2	9	4	9	14	4	1	6	-	14	8	15	46	13	8	3	9	2
1 TO 19 EMPLOYEES.	97	5	-	1	5	3	3	2	8	3	1	5	-	9	3	13	27	13	1	2	7	1
20 TO 99 EMPLOYEES.	47	1	-	1	3	3	2	4	6	1	-	2	-	5	4	5	5	4	3	1	1	1
100 TO 249 EMPLOYEES.	17	2	-	-	1	-	-	1	-	-	-	1	-	-	-	-	5	4	2	1	1	1
250 EMPLOYEES AND OVER.	16	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	5	2	-	-	-	-
MONROE COUNTY.	17	-	-	-	1	7	-	-	3	-	-	1	-	2	3	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	14	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MONTGOMERY COUNTY.	962	47	-	2	17	24	17	26	112	37	6	38	-	29	30	124	299	44	21	20	34	35
1 TO 19 EMPLOYEES.	532	28	-	14	12	19	10	84	84	23	4	18	-	14	9	76	192	26	13	20	28	11
20 TO 99 EMPLOYEES.	256	8	-	5	10	9	5	20	20	10	1	14	-	10	15	36	84	11	12	14	6	10
100 TO 249 EMPLOYEES.	68	10	-	-	-	1	-	6	3	3	1	3	-	5	4	9	13	2	1	1	1	8
250 EMPLOYEES AND OVER.	46	1	-	-	-	-	-	3	5	3	-	3	-	-	2	3	10	5	5	-	-	6
MORGAN COUNTY.	19	-	-	-	9	9	2	-	2	-	1	-	-	1	-	1	2	-	-	-	-	1
1 TO 19 EMPLOYEES.	13	-	-	-	-	8	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES.	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MORROW COUNTY.	23	2	-	-	1	1	-	1	5	1	-	3	-	3	-	1	4	1	1	1	-	-
1 TO 19 EMPLOYEES.	16	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-
20 TO 99 EMPLOYEES.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
MUSKINGUM COUNTY	98	12	-	-	-	14	-	1	8	2	1	3	-	16	4	4	19	5	1	2	4	2
1 TO 19 EMPLOYEES	57	2	-	-	13	-	-	-	7	1	1	2	-	7	1	4	14	1	-	2	2	-
20 TO 99 EMPLOYEES	26	9	-	-	1	-	-	-	-	1	-	1	-	6	-	-	3	1	-	-	2	2
100 TO 249 EMPLOYEES	8	1	-	-	-	-	-	-	1	-	-	-	-	2	3	-	2	1	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	-	2	1	-	-	-
NOBLE COUNTY	11	-	-	-	1	5	-	-	1	-	-	-	-	2	-	1	-	-	1	-	-	-
1 TO 19 EMPLOYEES	8	-	-	-	1	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTTAWA COUNTY	75	13	-	1	3	5	-	1	8	-	-	2	-	8	3	6	17	-	-	7	1	-
1 TO 19 EMPLOYEES	54	11	-	-	3	3	-	-	8	-	-	-	-	3	1	3	16	-	-	5	1	-
20 TO 99 EMPLOYEES	10	2	-	-	2	-	-	1	-	-	-	-	-	1	2	1	1	-	-	1	-	-
100 TO 249 EMPLOYEES	9	-	-	1	-	-	-	-	-	-	-	2	-	5	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-
PAULDING COUNTY	31	5	-	-	-	1	1	1	4	-	-	1	1	5	-	4	5	1	3	-	-	-
1 TO 19 EMPLOYEES	21	4	-	-	1	1	-	-	4	-	-	-	1	2	-	3	3	1	1	-	-	-
20 TO 99 EMPLOYEES	6	1	-	-	-	-	-	-	-	-	-	1	-	1	-	1	1	-	1	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PERRY COUNTY	42	4	-	-	7	7	-	-	3	-	1	-	-	15	1	4	5	-	-	-	-	2
1 TO 19 EMPLOYEES	24	4	-	-	7	-	-	-	3	-	-	-	-	5	-	1	2	-	-	-	-	-
20 TO 99 EMPLOYEES	10	-	-	-	-	-	-	-	-	-	-	-	-	5	-	2	2	-	-	-	-	-
100 TO 249 EMPLOYEES	7	-	-	-	-	-	-	-	-	-	-	-	-	4	1	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
PICKAWAY COUNTY	28	4	-	-	2	2	-	2	4	2	-	4	-	2	-	3	2	1	-	-	1	1
1 TO 19 EMPLOYEES	13	1	-	-	2	-	-	-	3	1	-	2	-	1	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	5	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	6	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PIKE COUNTY	26	2	-	-	18	-	-	-	1	1	-	1	-	-	-	2	-	-	1	-	-	-
1 TO 19 EMPLOYEES	20	2	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PORTAGE COUNTY	194	5	-	3	2	4	2	4	12	4	-	44	-	13	3	15	67	5	4	-	-	4
1 TO 19 EMPLOYEES	111	5	-	2	3	2	2	1	10	3	-	14	-	7	1	6	50	2	2	-	-	2
20 TO 99 EMPLOYEES	64	-	-	2	2	1	-	-	1	1	-	22	-	5	1	1	15	1	1	-	-	4
100 TO 249 EMPLOYEES	12	-	-	-	-	-	-	-	1	-	-	6	-	1	1	1	1	1	2	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PREBLE COUNTY	59	6	-	-	5	6	-	1	3	2	-	4	-	7	1	4	14	1	1	-	2	1
1 TO 19 EMPLOYEES	43	5	-	-	3	4	-	-	2	2	-	3	-	6	1	1	12	-	-	-	-	-
20 TO 99 EMPLOYEES	10	1	-	-	2	2	-	-	1	1	-	-	-	1	-	1	2	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PUTNAM COUNTY	47	6	-	-	6	5	1	1	7	1	-	2	-	7	-	5	8	1	2	-	-	1
1 TO 19 EMPLOYEES	35	3	-	-	5	1	-	-	5	1	-	-	-	6	-	4	6	-	1	-	-	-
20 TO 99 EMPLOYEES	7	1	-	-	1	-	-	-	1	-	-	-	-	1	-	1	1	-	1	-	-	-
100 TO 249 EMPLOYEES	4	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RICHLAND COUNTY	207	9	-	1	3	7	6	4	27	4	1	8	2	12	5	38	42	15	6	3	10	4
1 TO 19 EMPLOYEES	118	6	-	-	5	5	2	-	21	4	1	1	-	4	2	11	32	5	4	2	1	8
20 TO 99 EMPLOYEES	58	3	-	-	2	-	1	1	6	2	-	2	-	3	1	2	2	1	-	-	1	2
100 TO 249 EMPLOYEES	15	-	-	1	-	-	-	-	1	-	-	1	-	1	-	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	16	-	-	-	-	-	-	-	7	3	-	-	-	-	-	-	-	-	-	-	-	-
ROSS COUNTY	61	4	-	-	1	22	-	2	7	6	-	2	1	4	1	3	3	4	-	-	1	1
1 TO 19 EMPLOYEES	42	3	-	-	1	13	-	-	1	1	-	-	-	3	1	2	2	1	-	-	1	-
20 TO 99 EMPLOYEES	11	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SANDUSKY COUNTY	114	9	-	-	4	2	1	2	10	5	1	9	-	12	1	14	25	7	4	2	5	1
1 TO 19 EMPLOYEES	61	3	-	-	1	2	1	1	7	4	1	3	-	6	-	7	19	3	1	-	2	5
20 TO 99 EMPLOYEES	30	2	-	-	1	1	1	1	2	1	-	3	-	4	-	6	6	1	-	-	1	-
100 TO 249 EMPLOYEES	17	2	-	-	2	-	-	-	1	-	-	3	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
SCIOTO COUNTY	69	4	-	1	-	20	1	1	5	3	1	1	1	9	5	1	4	1	1	-	1
1 TO 19 EMPLOYEES	52	-	-	-	-	19	1	1	4	2	-	1	1	6	1	1	4	1	1	-	5
20 TO 99 EMPLOYEES	10	3	-	-	-	1	-	-	1	-	-	-	-	2	1	1	-	-	-	-	5
100 TO 249 EMPLOYEES	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SENECA COUNTY	81	7	-	-	1	2	1	2	11	3	2	4	-	13	9	3	16	2	1	-	3
1 TO 19 EMPLOYEES	41	4	-	-	1	1	1	1	8	3	2	1	-	7	4	2	9	-	-	-	2
20 TO 99 EMPLOYEES	18	4	-	-	-	-	-	-	2	-	-	2	-	2	1	1	2	-	-	-	1
100 TO 249 EMPLOYEES	9	1	-	-	-	-	-	-	1	-	-	1	-	1	1	-	3	2	1	-	-
250 EMPLOYEES AND OVER	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHELBY COUNTY	89	5	-	1	1	7	-	1	5	-	2	6	1	5	7	10	29	-	4	1	3
1 TO 19 EMPLOYEES	87	3	-	1	-	5	-	-	4	-	2	2	1	2	1	2	15	-	1	1	1
20 TO 99 EMPLOYEES	28	2	-	-	-	1	-	-	-	-	-	1	-	3	1	2	11	-	2	1	2
100 TO 249 EMPLOYEES	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	8	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	3	-	1	-	-
STARK COUNTY	567	50	-	2	15	18	9	18	58	20	6	28	-	41	28	98	100	18	14	9	15
1 TO 19 EMPLOYEES	350	30	-	1	11	14	6	8	43	10	5	13	-	26	10	51	76	5	13	5	20
20 TO 99 EMPLOYEES	143	13	-	1	3	3	1	1	10	9	-	10	-	10	5	30	17	12	5	17	6
100 TO 249 EMPLOYEES	30	3	-	-	-	1	1	2	4	1	-	1	-	4	4	5	1	1	2	2	3
250 EMPLOYEES AND OVER	44	-	-	-	-	-	-	-	1	-	1	4	-	1	9	12	6	1	1	-	-
SUMMIT COUNTY	867	45	-	5	19	13	12	13	105	37	4	82	-	36	22	124	249	29	14	13	22
1 TO 19 EMPLOYEES	544	29	-	3	13	11	6	6	80	19	2	35	-	22	12	75	170	17	9	6	18
20 TO 99 EMPLOYEES	234	9	-	1	6	2	4	5	23	12	2	30	-	10	8	32	60	11	2	6	4
100 TO 249 EMPLOYEES	53	4	-	-	-	-	2	-	1	3	-	8	-	3	1	12	14	-	1	1	1
250 EMPLOYEES AND OVER	36	-	-	-	-	-	-	-	1	5	-	1	-	1	1	5	5	1	2	-	4
TRUMBULL COUNTY	263	14	-	-	3	19	5	-	21	5	-	11	1	23	22	66	44	9	12	3	5
1 TO 19 EMPLOYEES	141	10	-	-	3	17	4	-	15	4	-	3	-	16	6	22	29	2	3	3	-
20 TO 99 EMPLOYEES	78	3	-	-	-	2	1	-	4	1	-	7	-	4	7	30	11	3	4	-	-
100 TO 249 EMPLOYEES	22	1	-	-	-	-	-	-	-	-	-	-	-	3	1	10	1	2	1	-	-
250 EMPLOYEES AND OVER	22	-	-	-	-	-	-	-	-	-	-	1	-	-	-	4	3	2	4	-	-
TUSCARAWAS COUNTY	189	21	-	2	4	23	4	3	11	9	1	14	2	31	6	17	30	1	-	3	5
1 TO 19 EMPLOYEES	109	15	-	1	18	1	2	2	8	5	-	4	2	10	1	13	22	1	-	2	2
20 TO 99 EMPLOYEES	56	6	-	1	3	3	-	-	2	3	1	7	-	16	1	1	5	1	-	3	2
100 TO 249 EMPLOYEES	15	-	-	-	-	1	1	1	1	1	-	3	-	4	2	3	2	-	-	1	-
250 EMPLOYEES AND OVER	9	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	1	-	-	-	-
UNION COUNTY	39	2	-	-	1	2	-	-	3	4	-	6	-	3	1	4	4	1	3	1	3
1 TO 19 EMPLOYEES	18	1	-	-	1	2	-	-	2	3	-	5	-	3	3	2	3	-	2	-	-
20 TO 99 EMPLOYEES	11	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-	-	-	-
100 TO 249 EMPLOYEES	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1	1	-	-
VAN WERT COUNTY	50	5	-	-	2	2	1	2	5	2	2	-	-	8	-	11	5	2	2	-	1
1 TO 19 EMPLOYEES	28	3	-	-	1	2	1	1	4	2	1	-	-	6	-	5	2	1	-	-	-
20 TO 99 EMPLOYEES	13	1	-	-	-	-	-	-	1	-	-	-	-	1	-	2	3	1	-	-	1
100 TO 249 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VINTON COUNTY	21	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-
1 TO 19 EMPLOYEES	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WARREN COUNTY	97	2	-	1	-	10	6	12	5	3	3	6	2	11	1	7	19	5	2	2	1
1 TO 19 EMPLOYEES	57	1	-	-	4	4	4	5	2	3	2	3	-	9	1	1	16	2	2	1	1
20 TO 99 EMPLOYEES	33	1	-	1	-	6	1	1	3	1	1	1	-	2	1	5	3	2	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WASHINGTON COUNTY	83	8	-	-	1	16	1	-	7	8	6	2	-	13	4	8	5	1	-	1	2
1 TO 19 EMPLOYEES	55	6	-	-	1	15	-	-	5	3	3	1	-	11	1	2	2	1	-	-	-
20 TO 99 EMPLOYEES	14	1	-	-	-	1	-	-	2	2	2	-	-	1	1	1	2	-	-	-	-
100 TO 249 EMPLOYEES	8	1	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 – Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

[illegible]

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

¹Only those counties and size classes that include data for manufacturing establishments are shown.

Oklahoma

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SUMMARY OF FINDINGS

In 1977, 164.4 thousand persons were employed in Oklahoma's manufacturing establishments. This figure represented an increase of 15 percent from the 1972 figure of 142.7 thousand workers.

The total value added by manufacture for the State amounted to \$4,662 million in 1977, an increase of approximately 105 percent from the 1972 figure of \$2,270 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were machinery, except electrical; fabricated metal products; food and kindred products; and transportation equipment. They accounted for approximately 51 percent of the State's 1977 employment. The order has shifted from 1972 when industry groups machinery, except electrical; food and kindred products; fabricated metal products; and electric and electronic equipment accounted for approximately 43 percent of the State's employment.

The most important counties in the State ranked by employment were Tulsa, Oklahoma, Washington, and Kay. They accounted for approximately 60 percent of the State's 1977 manufacturing employment. The order has shifted from 1972 when Oklahoma, Tulsa, Washington, and Kay accounted for approximately 59 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 3 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Oklahoma:						
1977.....	164.4	2,050.9	150.2	1,786.3	14.2	264.6
1972.....	142.7	1,187.9	128.9	1,020.7	13.8	167.2
1967.....	117.7	764.2	105.0	648.0	12.7	116.2
1963.....	97.7	551.7	87.3	465.1	10.4	86.6
STANDARD METROPOLITAN STATISTICAL AREAS						
Fort Smith, Ark.-Okla.:						
1977.....	23.3	230.4	22.9	223.5	.4	6.9
1972.....	18.8	120.3	18.6	117.7	.2	2.6
1967.....	14.1	64.6	(D)	(D)	(D)	(D)
1963.....	12.3	47.6	(D)	(D)	(D)	(D)
Lawton:						
1977.....	.5	4.6	.5	4.6	-	-
1972.....	1.5	8.9	1.5	8.9	-	-
1967.....	1.2	5.8	1.2	5.8	-	-
1963.....	1.0	4.5	1.0	4.5	-	-
Oklahoma City:						
1977.....	43.1	548.2	40.7	505.9	2.4	42.3
1972.....	41.0	347.1	38.4	319.5	2.6	27.6
1967.....	29.3	185.1	27.9	174.5	1.4	10.6
1963.....	27.2	153.1	26.1	145.0	1.1	8.2
Tulsa:						
1977.....	58.9	774.3	53.4	684.2	5.5	90.1
1972.....	44.9	401.2	41.8	365.2	3.1	36.0

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers							Comparative indexes and U.S. employment			
												United States			
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	Index of State em- ploy- ment change (1977= 100)	Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)
OKLAHOMA															
1977 CENSUS.	3 818	1 067	164.4	2 050.9	110.4	214.3	1 164.3	4 662.3	8 048.4	12 564.5	485.8	.84	100	100	19 596.9
1976 ASM.....	(NA)	(NA)	150.1	1 743.0	100.1	194.8	953.1	3 607.7	6 486.0	10 126.0	410.6	.80	91	96	18 753.0
1975 ASM.....	(NA)	(NA)	151.0	1 583.6	97.9	187.6	852.2	3 445.5	5 496.4	8 889.5	358.3	.83	92	94	18 302.2
1974 ASM.....	(NA)	(NA)	153.5	1 427.7	104.6	201.3	821.5	3 108.2	5 005.6	7 945.2	339.2	.77	93	102	19 844.8
1973 ASM.....	(NA)	(NA)	156.5	1 374.6	104.0	200.1	754.4	2 597.3	3 837.7	6 336.1	253.5	.79	95	102	19 897.9
1972 CENSUS.	3 042	897	142.7	1 187.9	95.7	186.1	659.0	2 270.1	3 132.0	5 348.1	223.8	.75	87	98	19 028.7
1971 ASM.....	(NA)	(NA)	132.2	1 024.0	88.2	173.5	567.4	1 834.4	2 719.0	4 553.7	158.4	.72	80	94	18 363.1
1970 ASM.....	(NA)	(NA)	131.0	974.4	89.1	176.9	552.5	1 766.3	2 561.8	4 293.0	146.1	.68	80	99	19 217.2
1969 ASM.....	(NA)	(NA)	129.2	912.0	87.3	171.2	513.8	1 595.4	2 314.2	3 872.0	130.9	.64	79	103	20 035.5
1968 ASM.....	(NA)	(NA)	123.5	835.4	82.6	163.8	466.4	1 477.6	2 158.6	3 599.9	84.1	.63	75	100	19 527.6
1967 CENSUS.	2 611	745	117.7	764.2	78.7	157.8	423.0	1 346.2	1 962.7	3 292.3	80.9	.61	72	99	19 323.2
1966 ASM.....	(NA)	(NA)	110.1	677.9	73.8	151.7	381.4	1 241.9	1 844.9	3 049.3	70.6	.58	67	98	19 024.5
1965 ASM.....	(NA)	(NA)	102.5	607.3	68.9	140.6	340.9	1 101.1	1 682.6	2 771.4	66.7	.57	62	92	18 010.2
1964 ASM.....	(NA)	(NA)	99.1	579.5	65.6	134.1	312.5	1 032.4	1 570.0	2 598.1	62.0	.57	60	89	17 268.5
1963 CENSUS.	2 575	648	97.7	551.7	64.2	130.1	295.0	978.8	(NA)	(NA)	63.6	.58	59	87	16 958.4
OKLAHOMA CITY SMSA															
1977 CENSUS.	1 067	284	43.1	548.2	28.7	55.7	310.3	1 261.0	1 787.0	2 995.5	93.8	.22	100	100	19 596.9
1976 ASM.....	(NA)	(NA)	36.8	448.8	23.0	46.1	237.8	964.8	1 381.8	2 358.0	61.8	.20	85	96	18 753.0
1975 ASM.....	(NA)	(NA)	38.2	415.7	22.3	44.0	216.6	846.3	1 217.7	2 068.3	85.6	.21	89	94	18 302.2
1974 ASM.....	(NA)	(NA)	40.3	402.9	25.5	50.1	220.7	847.7	1 200.9	2 032.5	64.1	.20	94	102	19 844.8
1973 ASM.....	(NA)	(NA)	42.3	377.5	27.6	53.5	210.1	813.0	1 060.1	1 850.6	54.6	.21	98	102	19 897.9
1972 CENSUS.	851	253	41.0	347.1	26.6	51.9	190.9	787.0	837.1	1 595.8	61.6	.22	95	98	19 028.7
1967 CENSUS.	696	182	29.3	185.1	19.6	39.4	103.2	323.3	450.3	779.7	18.4	.15	68	99	19 323.2
1963 CENSUS.	692	173	27.2	153.1	17.6	36.3	74.9	299.2	(NA)	(NA)	21.3	.16	63	87	16 958.4
TULSA SMSA															
1977 CENSUS.	1 272	391	58.9	774.3	37.0	72.9	427.9	1 701.5	2 141.8	3 809.8	152.5	.30	100	100	19 596.9
1976 ASM.....	(NA)	(NA)	48.0	606.9	32.1	63.8	341.3	1 301.7	1 849.3	3 169.3	142.1	.26	81	96	18 753.0
1975 ASM.....	(NA)	(NA)	50.9	562.5	33.2	64.2	314.3	1 316.3	1 556.6	2 864.5	136.8	.28	86	94	18 302.2
1974 ASM.....	(NA)	(NA)	48.9	469.1	33.5	65.8	285.2	1 116.4	1 358.5	2 369.0	171.1	.25	83	102	19 844.8
1973 ASM.....	(NA)	(NA)	52.3	508.7	32.2	62.9	260.0	842.7	1 043.7	1 847.8	107.4	.26	89	102	19 897.9
1972 CENSUS.	958	301	44.9	401.2	29.5	58.2	220.1	704.3	878.0	1 567.6	56.3	.24	76	98	19 028.7

(NA) Not available.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
OKLAHOMA									
1977 CENSUS.....	12 479	67	1 942	5.43	64	80	28 367	44	21.75
1976 ASM.....	11 612	67	1 946	4.89	64	81	24 035	48	18.52
1975 ASM.....	10 487	65	1 916	4.54	62	80	22 818	46	18.37
1974 ASM.....	9 301	68	1 924	4.08	63	81	20 249	46	15.44
1973 ASM.....	8 783	66	1 924	3.77	61	82	16 596	53	12.98
1972 CENSUS.....	8 324	67	1 945	3.54	59	81	15 908	52	12.20
1971 ASM.....	7 746	67	1 967	3.27	60	82	13 876	56	10.57
1970 ASM.....	7 438	68	1 985	3.12	60	82	13 483	55	9.98
1969 ASM.....	7 059	68	1 961	3.00	60	83	12 348	57	9.32
1968 ASM.....	6 764	67	1 983	2.85	60	83	11 964	57	9.02
1967 CENSUS.....	6 493	67	2 005	2.68	60	83	11 438	57	8.53
1966 ASM.....	6 157	67	2 056	2.51	61	83	11 280	55	8.19
1965 ASM.....	5 925	67	2 041	2.42	61	83	10 742	55	7.83
1964 ASM.....	5 848	66	2 044	2.33	60	83	10 418	56	7.70
1963 CENSUS.....	5 647	66	2 026	2.27	(NA)	(NA)	10 018	56	7.52
OKLAHOMA CITY SMSA									
1977 CENSUS.....	12 728	67	1 944	5.57	60	78	29 275	43	22.63
1976 ASM.....	12 196	62	2 004	5.16	59	78	26 217	47	20.93
1975 ASM.....	10 882	58	1 973	4.92	59	79	22 154	49	19.23
1974 ASM.....	9 998	63	1 965	4.41	59	79	21 035	48	16.92
1973 ASM.....	8 924	65	1 938	3.93	57	78	19 220	46	15.20
1972 CENSUS.....	8 466	65	1 951	3.68	52	74	19 195	44	15.16
1967 CENSUS.....	6 317	67	2 010	2.62	58	81	11 034	57	8.21
1963 CENSUS.....	5 629	65	2 063	2.06	(NA)	(NA)	11 000	51	8.24
TULSA SMSA									
1977 CENSUS.....	13 142	63	1 967	5.87	56	77	28 881	46	23.35
1976 ASM.....	12 644	67	1 988	5.35	58	77	27 119	47	20.40
1975 ASM.....	11 051	65	1 934	4.90	54	74	25 861	43	20.50
1974 ASM.....	9 593	69	1 964	4.33	57	77	22 830	42	16.97
1973 ASM.....	9 727	62	1 953	4.13	56	84	16 113	60	13.40
1972 CENSUS.....	8 935	66	1 973	3.78	56	82	15 686	57	12.10

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹ -----	number -----	3 818	3 042
With 1 to 19 employees -----	do -----	2 751	2 145
With 20 to 99 employees -----	do -----	717	584
With 100 employees or more -----	do -----	350	313
All employees, average for year ¹ -----	1,000 -----	164.4	142.7
Payroll for year, all employees ¹ -----	mil. dollars --	2 050.9	1 187.9
Production workers:			
Average for year -----	1,000 -----	110.4	95.7
March -----	do -----	107.9	82.6
May -----	do -----	109.6	94.9
August -----	do -----	111.3	96.8
November -----	do -----	112.2	98.6
Hours -----	millions -----	214.3	186.1
January to March -----	do -----	52.2	44.5
April to June -----	do -----	53.4	46.7
July to September -----	do -----	53.9	47.0
October to December -----	do -----	54.9	47.8
Wages -----	mil. dollars --	1 164.3	659.0
Cost of materials, etc. ² -----	do -----	8 048.4	3 132.0
Materials, parts, containers, etc., consumed -----	do -----	7 132.7	2 853.7
Resales -----	do -----	496.8	158.4
Fuels consumed -----	do -----	188.7	38.4
Purchased electric energy -----	do -----	115.4	32.9
Contract work -----	do -----	114.8	48.6
Value of shipments, including resales ² -----	do -----	12 564.5	5 348.1
Value of resales -----	do -----	592.0	198.5
Value added by manufacture -----	do -----	4 662.3	2 270.1
Manufacturers' inventories:			
Beginning of year -----	do -----	1 424.6	688.7
Finished products -----	do -----	510.8	251.9
Work in process -----	do -----	387.6	202.4
Materials, supplies, fuel, etc. -----	do -----	526.3	234.4
End of year -----	do -----	1 600.8	766.8
Finished products -----	do -----	565.2	276.9
Work in process -----	do -----	478.6	225.4
Materials, supplies, fuel, etc. -----	do -----	557.0	264.4
Capital expenditures for plant and equipment -----	do -----	510.5	233.1
New capital expenditures -----	do -----	485.8	223.8
New buildings and other structures -----	do -----	94.0	53.5
New machinery and equipment -----	do -----	391.8	170.3
Used capital expenditures -----	do -----	24.7	9.3

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Including central administrative offices and auxiliaries (for definition, see appendix B).

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	51.4	4
Beginning of year.....	3,398.2	1	Buildings and other structures.....	21.0	6
New capital expenditures.....	490.1	3	Machinery and equipment.....	30.5	5
Used capital expenditures.....	24.6	6			
Retirements.....	81.7	3	Depreciation charges during 1977:		
End of year.....	3,831.2	1	Total.....	247.5	2
Buildings and other structures:			Buildings and other structures.....	41.7	5
Beginning of year.....	937.9	2	Machinery and equipment.....	205.8	2
New capital expenditures.....	97.5	7			
Used capital expenditures.....	5.9	12	Supplemental labor costs:		
Retirements.....	31.6	4	Total.....	337.7	1
End of year.....	1,009.6	2	Legal costs.....	139.6	1
Machinery and equipment:			Voluntary costs.....	198.0	2
Beginning of year.....	2,460.3	1			
New capital expenditures.....	392.6	3	Purchased services:		
Automobiles, trucks, etc., for highway use...	18.1	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	22.1	(NA)	Buildings and other structures.....	(10.5)	(A)
All other.....	303.1	(NA)	Response coverage ratio (percent).....	61	(X)
New machinery and equipment, n.s.k.....	49.4	(NA)	Machinery.....	(80.1)	(A)
Used capital expenditures.....	18.7	6	Response coverage ratio (percent).....	62	(X)
Retirements.....	50.2	3	Cost of purchased communication services.....	(18.6)	(A)
End of year.....	2,821.5	1	Response coverage ratio (percent).....	62	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

(A) Indicates standard errors of 100 percent or more. Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area		1977										1972			
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)							
Oklahoma -----	-	3 818	1 067	164.4	2 050.9	110.4	214.3	1 164.3	4 862.3	8 048.4	12 584.5	485.8	142.7	2 270.1	
STANDARD METROPOLITAN STATISTICAL AREAS															
Fort Smith, Ark.-Okla. -----	-	338	119	23.3	230.4	19.2	37.8	171.2	553.8	846.4	1 383.3	34.0	18.8	285.1	
Portion in Arkansas -----	-	271	108	21.9	217.8	18.1	35.9	162.1	514.8	815.5	1 313.0	30.2	17.7	261.1	
Portion in Oklahoma -----	E1	67	13	1.4	12.6	1.1	1.9	9.1	38.9	30.9	70.3	3.8	1.1	16.4	
Lawton -----	E1	65	14	1.5	13.1	1.0	1.9	7.1	25.4	35.3	60.6	3.4	1.5	20.7	
Oklahoma City -----	-	1 067	284	43.1	548.2	28.7	55.7	310.3	1 261.0	1 787.0	2 995.5	83.8	41.0	787.0	
Tulsa -----	-	1 272	391	58.9	774.3	37.0	72.9	427.9	1 701.5	2 141.8	3 809.8	152.5	44.9	704.3	
COUNTIES															
Adair -----	-	20	5	1.0	6.9	0.8	1.7	4.6	19.8	41.6	61.0	0.8	0.8	7.6	
Alfalfa -----	E8	7	-	(Z)	0.3	(Z)	(Z)	0.2	0.6	0.5	1.1	(Z)	(Z)	(NA)	
Atoka -----	-	11	2	0.2	1.2	0.1	0.2	0.9	2.7	2.1	4.8	(D)	(D)	(D)	
Beaver -----	E1	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Beckham -----	-	18	5	0.3	2.1	0.2	0.4	1.0	4.1	11.2	15.0	0.2	0.4	3.2	
Blaine -----	-	15	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	10.7	
Bryan -----	-	36	15	1.3	10.9	1.0	1.8	8.1	24.0	36.0	59.4	0.7	0.8	10.3	
Caddo -----	-	17	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Canadian -----	-	43	10	1.3	16.1	0.8	1.4	7.1	39.6	31.1	88.5	2.2	1.5	27.5	
Carter -----	-	47	19	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	32.3	
Cherokee -----	E3	16	2	0.3	1.8	0.2	0.4	1.4	2.9	2.2	5.1	0.1	0.1	1.2	
Choctaw -----	-	15	3	0.3	2.2	0.3	0.5	1.6	5.1	4.4	9.4	0.1	0.3	3.1	
Cimarron -----	-	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Cleveland -----	E1	78	14	1.5	18.2	1.1	2.1	10.8	38.9	60.4	98.3	1.2	1.5	29.6	
Coal -----	-	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Comanche -----	E1	65	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	20.7	
Cotton -----	E2	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Craig -----	E1	13	4	0.4	2.9	0.3	0.6	2.1	11.2	8.5	19.4	0.4	0.4	7.2	
Creek -----	-	63	21	2.9	33.1	2.5	4.7	25.2	62.6	54.9	116.4	5.3	2.5	37.3	
Custer -----	-	30	8	1.4	12.5	1.0	2.0	8.1	65.9	58.4	123.1	(D)	0.8	18.4	
Delaware -----	-	20	3	0.3	2.1	0.3	0.3	1.6	5.8	9.4	14.8	0.1	0.3	1.7	
Dewey -----	E0	7	-	(Z)	0.1	(Z)	(Z)	(Z)	0.2	0.3	0.4	(Z)	(Z)	(NA)	
Ellis -----	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)	
Garfield -----	-	78	18	3.0	37.7	1.7	3.3	20.6	152.2	450.1	601.5	(D)	2.2	47.1	
Garvin -----	-	28	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	10.5	
Grady -----	E1	58	23	2.6	23.6	2.2	4.5	17.4	69.7	88.5	134.9	5.1	1.5	16.8	
Grant -----	E4	8	-	(Z)	0.4	(Z)	0.1	0.3	1.0	0.8	1.6	(Z)	(Z)	(NA)	
Greer -----	E1	6	1	(Z)	0.5	(Z)	0.1	0.4	1.6	1.4	3.0	(D)	0.1	0.9	
Harmon -----	-	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Harper -----	E0	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)	
Haskell -----	E0	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Hughes -----	-	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	3.7	
Jackson -----	-	17	3	0.3	2.5	0.3	0.5	2.0	6.7	7.1	13.3	0.1	0.8	13.7	
Jefferson -----	-	11	3	0.3	2.7	0.3	0.5	2.0	7.7	6.4	14.2	(D)	0.2	2.3	
Johnston -----	E9	8	2	0.1	0.9	0.1	0.2	0.7	1.6	1.3	2.9	0.1	0.1	0.7	
Kay -----	-	78	28	2.9	41.7	2.3	4.8	29.6	100.8	758.8	853.5	13.5	5.2	56.0	
Kingfisher -----	E5	15	1	0.1	1.2	0.1	0.2	0.8	2.6	2.7	5.0	0.3	(Z)	(NA)	
Kiowa -----	E3	13	1	0.1	0.9	0.1	0.2	0.7	1.2	0.9	2.2	(D)	0.1	1.6	
Latimer -----	-	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Le Flore -----	E2	38	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	6.5	
Lincoln -----	-	28	7	0.9	7.5	0.8	1.4	6.3	20.4	47.4	68.6	0.7	0.7	7.2	
Logan -----	-	21	5	0.8	5.8	0.6	1.1	3.5	13.2	13.2	28.4	(D)	0.8	10.4	
Love -----	-	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
McClain -----	-	10	3	0.2	1.4	0.2	0.4	1.1	2.5	6.7	9.1	0.1	0.1	0.9	
McCurain -----	-	68	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
McIntosh -----	-	8	2	0.2	1.8	0.2	0.4	1.3	4.3	14.9	20.1	(D)	(D)	(D)	
Major -----	E2	8	2	0.2	2.9	0.1	0.3	1.6	5.6	6.0	11.7	0.2	0.1	2.6	
Marshall -----	-	12	3	0.4	3.3	0.4	0.8	2.9	5.4	10.6	16.0	(D)	0.5	4.6	
Mayes -----	-	50	25	2.6	31.4	2.1	4.2	23.3	74.3	113.1	187.0	9.6	1.2	30.1	
Murray -----	E3	7	-	(Z)	0.5	(Z)	(Z)	0.2	0.9	0.8	1.7	(Z)	(D)	(D)	
Muskogee -----	-	93	26	4.0	45.0	3.1	5.7	30.8	121.0	129.6	251.0	8.1	3.8	65.0	
Noble -----	-	8	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Nowata -----	-	12	3	0.3	2.5	0.3	0.4	2.0	4.3	3.0	7.2	0.4	0.2	1.4	
Oktfuskee -----	E2	11	3	0.3	2.2	0.3	0.4	1.8	10.3	1.4	11.6	(D)	0.6	2.9	
Oklahoma -----	-	886	241	38.1	492.2	25.1	48.9	278.2	1 135.5	1 616.2	2 705.2	66.3	36.8	714.7	
Oklmulgee -----	-	33	10	1.3	15.5	1.0	2.0	11.4	52.7	128.5	173.3	(D)	1.8	33.4	
Osage -----	-	39	7	0.9	8.2	0.8	1.5	6.5	34.8	40.2	71.5	1.2	5.1	42.2	
Ottawa -----	-	66	19	4.1	50.6	3.4	6.5	40.6	127.9	134.4	258.8	(D)	3.7	75.5	
Pawnee -----	E1	8	1	0.2	1.3	0.2	0.3	1.1	3.7	3.2	6.9	0.1	0.1	1.6	
Payne -----	-	53	15	2.1	24.2	1.7	3.3	18.5	55.6	132.4	189.8	13.9	1.2	24.0	
Pittsburg -----	-	25	8	1.4	11.0	1.0	1.9	6.7	19.8	25.4	45.1	0.8	1.3	8.9	
Pontotoc -----	-	34	14	1.9	19.4	1.6	3.0	14.6	50.8	81.2	132.1	4.7	1.6	26.0	
Pottawatomie -----	-	50	16	2.0	20.3	1.5	2.9	13.1	44.5	72.5	114.4	24.0	1.1	14.4	
Pushmataha -----	E1	8	1	0.1	0.8	0.1	0.2	0.7	1.1	1.0	2.1	0.1	(Z)	(NA)	
Roger Mills -----	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(Z)	
Rogers -----	-	38	18	1.7	22.2	1.2	2.5	13.7	116.0	92.3	204.6	22.6	0.6	8.0	
Seminole -----	-	36	13	1.8	13.3	1.5	2.9	10.8	34.6	62.7	94.0	0.9	1.6	13.0	
Sequoyah -----	E1	29	7	0.6	6.1	0.5	0.9	4.2	27.8	20.2	48.5	(D)	0.3	9.9	
Stephens -----	-	62	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	37.7	
Texas -----	-	12	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Tillman -----	E2	15	6	0.7	5.0	0.7	1.2	4.0	10.7	10.8	20.1	0.8	0.8	5.7	
Tulsa -----	-	1 068	317	50.1	674.2	30.2	59.3	357.0	1 408.7	1 831.6	3 215.7	113.6	35.3	584.5	
Wagoner -----	-	14	3	0.6	5.1	0.3	0.6	2.3	5.2	9.8	14.5	0.3	0.2	2.1	
Washington -----	-	36	12	7.0	142.3	0.8	1.6	8.4	37.5	47.9	78.3	3.4	7.5	32.3	
Washita -----	-	16	2	0.3	2.1	0.3	0.4	1.7	4.4	7.2	11.3	0.2	0.2	1.9	
Woods -----	-	14	1	0.1	0.8	0.1	0.1	0.5	2.4	3.1	5.4	0.6	0.1	2.8	
Woodward -----	-	17	3	0.5	4.1	0.5	0.9	3.2	8.6	7.6	16.9	0.2	0.5	3.8	

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972			
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)							
CITIES															
Ada -----	-	30	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	14.9	
Anadarko -----	-	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Ardmore -----	-	39	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	31.9	
Bartlesville -----	-	26	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.2	28.8	
Blackwell -----	E1	21	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Broken Arrow -----	E1	63	15	1.3	16.4	0.9	1.8	9.5	36.1	35.5	67.4	1.8	0.9	14.3	
Broken Bow -----	-	21	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Chickasha -----	-	53	22	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	11.7	
Claremore -----	-	18	8	0.7	7.1	0.5	0.9	3.8	14.1	13.7	27.4	(D)	(NA)	(NA)	
Clinton -----	-	20	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Cushing -----	-	17	5	0.6	7.4	0.5	0.9	5.7	6.2	78.2	91.5	3.8	0.5	9.4	
Del City -----	-	14	6	0.5	5.3	0.4	0.7	3.4	24.9	49.2	74.9	2.1	(NA)	(NA)	
Duncan -----	-	48	6	3.1	35.6	2.5	4.5	25.3	86.2	65.9	149.9	5.4	(D)	(D)	
Durant -----	-	23	10	1.0	9.1	0.8	1.5	6.6	21.3	23.7	44.3	0.6	(D)	(D)	
Edmond -----	-	28	7	0.9	10.2	0.7	1.3	7.2	53.7	76.5	130.1	1.1	0.5	9.7	
El Reno -----	-	20	8	0.5	4.4	0.3	0.6	2.5	9.7	16.5	25.9	(D)	(NA)	(NA)	
Enid -----	-	65	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Frederick -----	E2	14	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Guthrie -----	-	17	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Idabel -----	E1	14	5	0.6	4.3	0.5	0.9	3.5	7.4	12.9	20.7	0.6	(NA)	(NA)	
Lawton -----	E1	59	14	1.5	13.0	1.0	1.9	7.0	25.2	34.1	59.2	3.3	(D)	(D)	
McAlester -----	-	21	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Miami -----	-	35	14	3.4	44.8	2.9	5.4	36.6	114.3	115.1	227.1	4.1	3.0	70.2	
Midwest City -----	-	24	5	0.8	8.1	0.5	1.0	4.3	11.5	24.4	35.4	2.0	0.8	10.4	
Muskogee -----	-	81	21	3.2	34.6	2.4	4.4	22.7	95.2	105.4	200.8	7.3	3.5	62.8	
Norman -----	-	59	12	1.4	16.7	1.0	1.9	9.9	35.8	57.5	92.3	1.0	1.4	27.1	
Oklahoma City -----	-	772	218	35.1	461.4	23.0	44.6	255.2	1 047.7	1 416.8	2 417.2	61.7	33.8	662.0	
Perry -----	-	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Ponca City -----	-	43	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Poteau -----	E1	12	3	0.5	4.1	0.3	0.6	3.0	6.3	6.0	12.2	0.1	(NA)	(NA)	
Pryor Creek -----	E1	34	20	2.1	24.2	1.6	3.3	17.5	55.2	79.8	135.6	8.9	0.8	19.5	
Sallisaw -----	E1	14	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Sand Springs -----	-	37	16	1.8	25.5	1.4	3.0	17.4	86.5	67.0	132.0	3.4	1.9	41.0	
Sapulpa -----	-	19	6	1.7	19.6	1.4	2.6	15.1	40.8	22.7	82.9	(D)	1.4	24.5	
Shawnee -----	-	44	16	1.9	19.9	1.5	2.8	12.9	43.7	71.0	112.1	(D)	(D)	(D)	
Stillwater -----	-	28	9	1.4	16.2	1.2	2.3	12.3	48.5	51.9	95.1	10.0	0.7	14.5	
Stroud -----	-	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Tulsa -----	-	901	263	43.3	584.1	25.5	50.0	301.6	1 197.9	1 580.3	2 761.7	103.1	34.8	533.0	
Wagoner -----	-	10	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Wewoka -----	E1	15	7	0.8	5.5	0.6	1.1	4.1	11.4	8.2	19.1	0.1	0.8	2.7	

- Represents zero.

(D) Withheld to avoid disclosing operations of individual companies.

(NA) Not available.

(Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E10—100 percent.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977										1972			
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	All industries -----	-	3 818	1 067	164.4	2 050.9	110.4	214.3	1 164.3	4 662.3	8 048.4	12 564.5	485.8	142.7	2 270.1

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	E1	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
20	Food and kindred products	-	328	120	14.1	156.2	9.4	18.5	89.8	375.3	1 257.7	1 627.3	32.1	14.4	239.7
201	Meat products	-	94	23	3.6	42.0	2.9	5.8	31.8	85.4	470.1	535.3	2.2	3.4	57.6
2011	Meat packing plants	-	73	17	2.2	32.9	1.7	3.5	24.4	46.7	368.6	415.1	1.6	EE	(D)
2013	Sausages and other prepared meats	-	15	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2016	Poultry dressing plants	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	7.1
202	Dairy products	-	29	17	1.6	17.5	0.8	1.6	7.2	33.5	154.0	187.2	3.4	1.7	31.0
2026	Fluid milk	-	17	13	1.4	15.1	0.6	1.2	5.4	32.5	111.4	143.3	2.2	1.4	25.3
203	Preserved fruits and vegetables	-	15	10	1.7	13.5	1.5	2.9	9.8	43.0	54.2	97.2	2.6	1.7	18.7
2033	Canned fruits and vegetables	E1	7	3	0.8	5.0	0.7	1.4	3.3	14.2	12.3	26.5	(D)	1.1	8.5
2038	Frozen specialties	-	5	4	0.8	6.7	0.7	1.2	5.3	22.7	29.3	52.1	1.0	CC	(D)
204	Grain mill products	-	51	20	1.6	18.6	1.0	2.2	11.6	80.6	283.0	364.8	4.4	1.4	26.0
2041	Flour and other grain mill products	-	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2047	Dog, cat, and other pet food	-	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2048	Prepared feeds, n.e.c.	-	41	15	0.9	9.5	0.5	1.1	4.8	22.4	146.8	169.8	1.4	0.9	16.5
205	Bakery products	-	30	10	1.9	25.1	1.2	2.3	11.9	47.6	46.1	93.4	4.1	1.9	38.8
2051	Bread, cake, and related products	-	29	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2052	Cookies and crackers	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
206	Sugar and confectionery products	-	13	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2065	Confectionery products	-	12	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
207	Fats and oils	-	13	8	0.5	8.8	0.4	0.9	4.6	17.6	59.3	73.2	2.8	0.4	6.7
2074	Cottonseed oil mills	-	4	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
208	Beverages	-	42	21	2.1	22.8	0.8	1.5	8.3	49.1	91.4	140.4	7.3	2.2	31.2
2086	Bottled and canned soft drinks	-	41	21	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
209	Miscellaneous foods and kindred products	-	41	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2099	Food preparations, n.e.c.	E2	19	5	0.3	2.9	0.2	0.4	1.6	6.0	7.9	13.8	0.2	CC	(D)
22	Textile mill products	-	19	12	1.9	15.2	1.5	3.1	11.9	29.8	81.8	116.2	1.8	2.0	23.8
227	Floor covering mills	-	8	6	1.1	8.8	0.8	1.6	6.5	14.0	59.6	78.2	(D)	1.2	15.3
2272	Tufted carpets and rugs	-	8	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
228	Yarn and thread mills	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2281	Yarn mills, except wool	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
23	Apparel and other textile products	-	135	79	11.3	71.6	10.2	18.6	59.8	181.4	170.6	327.8	(D)	10.2	76.7
2311	Men's and boys' suits and coats	-	5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
232	Men's and boys' furnishings	-	30	28	6.2	39.8	5.7	10.6	35.2	105.1	97.4	198.7	(D)	5.0	32.6
2322	Men's and boys' underwear	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2327	Men's and boys' separate trousers	-	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	10.2
2328	Men's and boys' work clothing	-	19	19	4.3	27.4	3.9	7.3	24.5	78.5	74.9	150.1	(D)	2.2	13.0
233	Women's and misses' outerwear	E2	26	16	1.4	7.6	1.3	2.2	6.4	13.7	6.4	20.0	(D)	1.9	9.7
2331	Women's and misses' blouses and waists	-	4	3	0.2	1.2	0.2	0.4	1.0	1.9	1.2	3.1	(Z)	(NA)	(NA)
2335	Women's and misses' dresses	E4	16	8	0.7	4.1	0.6	1.1	3.4	6.5	2.9	9.4	0.1	EE	(D)
2337	Women's and misses' suits and coats	-	3	3	0.3	1.3	0.3	0.4	1.2	4.2	2.0	6.1	(D)	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.	E5	3	2	0.2	1.0	0.2	0.3	0.9	1.2	0.3	1.5	0.3	CC	(D)
234	Women's and children's undergarments	-	6	6	1.1	7.2	0.9	1.8	5.5	11.6	11.4	23.0	(D)	CC	(D)
2341	Women's and children's underwear	-	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
236	Children's outerwear	E1	12	9	0.6	3.3	0.6	1.1	2.7	5.9	6.6	11.9	(D)	BB	(D)
2361	Children's dresses and blouses	E1	10	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
238	Miscellaneous apparel and accessories	-	5	4	0.5	3.9	0.4	0.6	2.2	6.9	7.7	14.7	(D)	0.6	8.8
2384	Robes and dressing gowns	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2387	Apparel belts	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
239	Miscellaneous fabricated textile products	E1	50	11	1.3	8.9	1.2	2.1	6.7	16.6	39.8	58.8	(D)	1.1	11.2
2391	Curtains and draperies	E1	21	5	0.5	3.3	0.5	0.9	2.8	8.4	11.6	19.3	0.3	BB	(D)
2392	House furnishings, n.e.c.	E1	8	3	0.6	4.1	0.5	0.9	2.8	5.6	23.0	29.3	0.2	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expen- ditures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
24	Lumber and wood products -----	-	183	39	3.8	38.9	3.2	6.2	27.6	85.5	175.5	260.1	10.3	4.4	70.6
2411	Logging camps and logging contractors -----	-	39	2	0.6	7.2	0.5	1.0	4.9	12.5	70.7	83.6	5.2	(NA)	(NA)
242	Sawmills and planing mills ----	-	45	7	0.8	7.9	0.7	1.5	6.5	18.6	33.5	52.3	1.1	1.4	32.1
2421	Sawmills and planing mills, general -----	-	38	7	0.8	7.6	0.7	1.4	6.3	18.1	33.1	51.3	1.0	1.3	31.0
243	Millwork, plywood, and structural members -----	-	46	11	1.0	10.6	0.8	1.6	7.6	24.2	29.9	53.7	1.1	0.8	10.7
2431	Millwork -----	-	13	4	0.2	2.3	0.2	0.4	1.6	3.1	5.1	8.2	(Z)	AA	(D)
2434	Wood kitchen cabinets -----	E3	20	5	0.4	3.4	0.3	0.5	2.1	6.5	5.1	11.5	0.3	0.2	2.8
2436	Softwood veneer and plywood -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
244	Wood containers -----	-	16	6	0.2	1.4	0.2	0.3	1.0	3.7	3.8	6.8	(D)	(NA)	(NA)
245	Wood buildings and mobile homes -----	-	10	7	0.8	7.7	0.6	1.2	4.6	18.2	24.5	42.4	(D)	1.6	20.9
2451	Mobile homes -----	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2452	Prefabricated wood buildings -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
249	Miscellaneous wood products --	-	27	6	0.4	4.2	0.4	0.7	3.0	8.2	13.3	21.3	(D)	0.5	5.5
2492	Particleboard -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2499	Wood products, n.e.c. -----	-	21	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.1
25	Furniture and fixtures -	E1	95	16	1.9	17.1	1.6	2.9	12.0	34.8	37.3	69.7	(D)	1.9	22.1
251	Household furniture -----	E1	62	11	1.3	9.6	1.0	1.8	6.3	20.6	26.7	47.0	(D)	1.2	13.5
2511	Wood household furniture ---	-	19	2	0.7	4.5	0.5	1.0	3.1	7.9	11.3	19.1	(D)	0.7	6.9
2512	Upholstered household furniture -----	E3	18	4	0.3	2.6	0.3	0.5	1.9	5.4	5.8	11.2	0.2	0.3	3.2
2515	Mattresses and bedsprings --	E1	18	5	0.2	2.2	0.2	0.3	1.1	6.4	9.0	15.2	(D)	AA	(D)
254	Partitions and fixtures -----	-	22	4	0.6	7.0	0.5	1.0	5.3	13.0	9.7	20.7	(D)	CC	(D)
2541	Wood partitions and fixtures -	-	19	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2542	Metal partitions and fixtures -	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
26	Paper and allied products -----	-	38	18	1.8	26.0	1.4	3.0	19.2	84.1	163.3	245.4	(D)	1.8	45.6
2631	Paperboard mills -----	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
264	Miscellaneous converted paper products -----	E1	15	3	0.2	1.8	0.1	0.2	1.2	3.7	7.1	11.0	(D)	(NA)	(NA)
265	Paperboard containers and boxes -----	-	17	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	14.5
2653	Corrugated and solid fiber boxes -----	-	9	6	0.6	7.2	0.4	0.8	5.0	17.7	28.3	45.9	1.2	CC	(D)
2661	Building paper and board mills -	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
27	Printing and publishing -----	E1	638	78	9.0	99.8	5.3	9.4	52.4	219.0	120.8	340.0	12.7	8.2	131.0
2711	Newspapers -----	-	204	39	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.5	68.0
2721	Periodicals -----	E1	30	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
273	Books -----	-	14	2	0.3	4.3	0.1	0.2	0.9	14.1	6.7	21.4	0.2	AA	(D)
2731	Book publishing -----	-	6	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
275	Commercial printing -----	E2	310	24	2.4	27.1	1.9	3.5	19.8	48.5	39.0	88.2	2.8	1.9	30.8
2751	Commercial printing, letterpress -----	E3	171	5	0.9	10.4	0.8	1.3	7.5	18.0	10.9	29.6	(D)	0.8	10.8
2752	Commercial printing, lithographic -----	E1	133	17	1.4	15.8	1.1	2.0	11.6	29.0	26.8	55.8	2.0	1.0	16.9
2761	Manifold business forms -----	-	9	6	0.8	9.1	0.6	1.2	6.5	22.6	27.6	49.2	(D)	0.8	12.6
278	Blankbooks and bookbinding --	-	13	3	0.3	2.8	0.2	0.4	2.1	6.5	2.2	8.7	0.3	AA	(D)
2782	Blankbooks and looseleaf binders -----	-	6	3	0.2	2.3	0.2	0.4	1.8	5.7	2.0	7.6	0.2	(NA)	(NA)
279	Printing trade services -----	E3	35	2	0.2	2.1	0.1	0.2	1.4	3.7	1.3	4.9	0.6	0.2	3.1
28	Chemicals and allied products -----	-	104	21	1.7	25.7	1.2	2.4	15.2	164.1	211.1	374.5	75.7	EE	(D)
281	Industrial inorganic chemicals --	-	16	5	0.3	4.7	0.2	0.5	2.8	24.4	17.3	42.3	4.0	0.5	14.2
2819	Industrial inorganic chemicals, n.e.c. -----	-	7	5	0.3	3.9	0.2	0.3	2.1	17.7	14.4	32.9	(D)	0.5	13.0
2851	Paints and allied products -----	E1	16	6	0.3	3.1	0.2	0.4	1.8	10.5	14.3	24.9	0.3	BB	(D)
287	Agricultural chemicals -----	-	11	4	0.6	9.5	0.4	0.9	6.6	83.1	116.4	201.5	(D)	0.3	9.7
2873	Nitrogenous fertilizers -----	-	4	4	0.5	9.1	0.4	0.9	6.4	80.8	113.7	196.6	(D)	AA	(D)
289	Miscellaneous chemical products -----	E1	38	3	0.3	4.9	0.2	0.3	2.5	20.8	27.6	47.7	2.0	0.2	11.2
2899	Chemical preparations, n.e.c. -----	E1	32	2	0.2	3.1	0.1	0.2	1.3	16.4	15.7	31.6	1.1	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
29	Petroleum and coal products -----	-	49	22	5.1	56.2	3.9	7.8	53.8	437.4	2 940.9	3 350.7	90.1	5.0	105.6
2911	Petroleum refining -----	-	16	13	3.9	74.2	3.0	6.2	56.0	405.4	2 840.2	3 218.4	88.4	FF	(D)
295	Paving and roofing materials ---	-	17	5	0.7	7.6	0.6	1.1	5.5	16.7	43.8	60.4	1.2	0.5	9.4
2952	Asphalt felts and coatings ---	-	6	4	0.6	6.2	0.5	0.9	4.6	11.7	33.3	44.9	(D)	0.3	5.9
299	Miscellaneous petroleum and coal products -----	-	16	4	0.4	4.4	0.3	0.5	2.3	15.3	56.9	71.8	0.5	BB	(D)
2992	Lubricating oils and greases -	-	15	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
30	Rubber and miscellaneous plastics products ----	-	104	40	10.0	126.2	8.2	15.8	96.9	385.3	357.0	732.7	13.7	6.7	139.0
3011	Tires and inner tubes -----	-	8	6	6.1	91.9	5.1	9.6	72.6	283.4	240.7	515.9	6.7	4.3	102.3
3041	Rubber and plastics hose and belting -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3069	Fabricated rubber products, n.e.c. -----	-	11	3	0.6	3.7	0.5	1.0	2.3	14.2	11.5	25.4	(D)	BB	(D)
3079	Miscellaneous plastics products -----	-	85	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
31	Leather and leather products -----	E4	28	8	0.8	5.6	0.7	1.2	3.7	10.6	9.2	19.4	0.4	DC	(D)
3151	Leather gloves and mittens ----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
317	Handbags and other personal leather goods -----	E7	7	2	0.3	2.0	0.2	0.4	1.2	3.7	2.5	5.8	(D)	BB	(D)
3172	Personal leather goods -----	E7	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3199	Leather goods, n.e.c. -----	E4	15	4	0.3	1.8	0.2	0.4	1.2	3.0	3.6	8.5	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	300	63	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.9	179.0
3211	Flat glass -----	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
322	Glass and glassware, pressed or blown -----	-	10	8	3.8	47.1	3.4	6.4	39.1	119.0	62.3	179.0	22.0	3.2	65.1
3221	Glass containers -----	-	6	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3229	Pressed and blown glass, n.e.c. -----	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3241	Cement, hydraulic -----	-	3	3	0.4	7.5	0.3	0.6	5.8	41.9	18.5	62.2	4.0	BB	(D)
325	Structural clay products -----	-	11	8	0.4	4.3	0.4	0.8	3.3	15.3	4.8	20.3	0.9	0.5	5.6
3251	Brick and structural clay tile -	-	8	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
326	Pottery and related products ---	-	11	1	0.2	1.4	0.1	0.3	1.2	1.9	0.8	2.7	(D)	AA	(D)
327	Concrete, gypsum, and plaster products -----	E1	211	34	2.9	35.2	2.1	4.3	22.3	89.5	97.7	187.4	12.9	3.0	56.3
3271	Concrete block and brick ---	E4	16	4	0.3	2.8	0.2	0.3	1.5	5.3	6.1	12.4	(D)	BB	(D)
3272	Concrete products, n.e.c. ---	-	50	9	0.7	9.0	0.5	1.1	5.3	18.4	11.7	30.3	0.5	0.6	11.4
3273	Ready-mixed concrete -----	E1	141	18	1.6	19.7	1.1	2.3	12.8	49.7	69.3	119.0	10.2	1.4	25.6
3275	Gypsum products -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
329	Miscellaneous nonmetallic mineral products -----	E2	25	4	0.3	2.9	0.2	0.3	1.4	6.7	3.3	9.9	0.3	0.4	5.5
33	Primary metal industries -----	-	82	44	5.3	69.7	4.2	8.4	49.5	124.1	176.3	293.7	19.3	FF	(D)
331	Blast furnace and basic steel products -----	-	14	4	1.1	17.5	0.9	1.6	11.6	27.0	53.5	81.9	2.0	CC	(D)
3312	Blast furnaces and steel mills -----	-	5	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3315	Steel wire and related products -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3317	Steel pipe and tubes -----	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
332	Iron and steel foundries -----	-	26	21	2.4	28.0	1.9	3.8	21.2	42.6	32.7	75.5	5.1	1.3	16.6
3321	Gray iron foundries -----	-	19	14	1.6	19.2	1.3	2.6	14.4	27.0	21.4	48.6	4.4	CC	(D)
3325	Steel foundries, n.e.c. -----	-	6	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
333	Primary nonferrous metals ----	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3333	Primary zinc -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3339	Primary nonferrous metals, n.e.c. -----	-	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
335	Nonferrous rolling and drawing -	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3351	Copper rolling and drawing --	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
336	Nonferrous foundries -----	-	16	7	0.4	4.9	0.4	0.8	3.7	11.9	11.1	22.7	1.9	0.4	5.9
3361	Aluminum foundries -----	-	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3362	Brass, bronze, and copper foundries -----	-	8	4	0.2	2.0	0.2	0.3	1.6	2.8	3.6	6.3	(D)	(NA)	(NA)
339	Miscellaneous primary metal products -----	E3	11	3	0.2	2.0	0.1	0.2	1.2	3.3	1.5	4.8	(D)	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			E1	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
34	Fabricated metal products -----	-	448	171	18.6	238.1	13.6	27.3	153.6	513.1	519.2	1 034.5	37.0	14.0	224.1
343	Plumbing and heating, except electric -----	-	11	2	0.3	3.8	0.3	0.6	2.6	15.2	14.4	26.7	(D)	(NA)	(NA)
3432	Plumbing fittings and brass goods -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
344	Fabricated structural metal products -----	-	235	105	11.6	151.5	8.5	16.9	98.3	325.4	353.9	680.6	14.2	8.9	155.7
3441	Fabricated structural metal -----	-	49	25	3.2	37.8	2.2	4.0	22.2	68.4	83.7	150.7	4.0	3.4	45.1
3442	Metal doors, sash, and trim -----	-	23	8	1.3	15.3	0.8	1.7	9.7	34.9	27.1	61.4	0.6	EE	(D)
3443	Fabricated plate work (boiler shops) -----	-	80	49	5.6	79.4	4.5	9.2	56.3	187.9	199.3	390.8	8.2	4.1	72.5
3444	Sheet metal work -----	E1	48	14	0.6	7.1	0.4	0.8	4.6	14.0	16.0	29.9	0.8	0.4	6.1
3446	Architectural metal work -----	E2	17	6	0.4	3.4	0.3	0.6	2.5	5.8	7.0	12.8	0.4	(NA)	(NA)
3448	Prefabricated metal buildings -----	E1	14	3	0.6	7.9	0.2	0.5	2.6	12.6	15.4	27.7	(D)	CC	(D)
345	Screw machine products, bolts, etc. -----	E4	10	4	0.3	3.0	0.2	0.4	2.1	5.1	6.6	11.6	(D)	0.2	2.7
3452	Bolts, nuts, rivets, and washers -----	E5	4	3	0.2	1.8	0.1	0.2	1.3	3.3	3.9	7.3	0.1	(NA)	(NA)
346	Metal forgings and stampings -----	E1	21	8	0.5	4.9	0.4	0.8	3.3	10.8	11.8	22.5	0.8	BB	(D)
3469	Metal stampings, n.e.c. -----	-	16	6	0.3	3.0	0.2	0.5	1.9	5.8	5.6	11.4	0.6	BB	(D)
347	Metal services, n.e.c. -----	E1	52	11	0.7	6.7	0.5	1.2	4.6	13.0	7.1	20.0	0.5	CC	(D)
3471	Plating and polishing -----	E2	30	7	0.3	3.4	0.3	0.6	2.3	5.6	2.2	7.8	0.3	0.2	3.3
3479	Metal coating and allied services -----	-	22	4	0.3	3.3	0.3	0.6	2.4	7.4	4.9	12.2	0.2	BB	(D)
349	Miscellaneous fabricated metal products -----	-	99	39	5.0	65.9	3.5	7.1	41.0	140.4	117.3	261.8	17.7	2.5	47.6
3494	Valves and pipe fittings -----	-	25	14	2.8	39.7	1.8	3.8	22.9	93.0	63.8	160.9	7.2	EE	(D)
3496	Miscellaneous fabricated wire products -----	-	12	4	0.6	7.4	0.5	1.0	4.9	10.8	22.1	33.1	(D)	BB	(D)
3498	Fabricated pipe and fittings -----	-	12	4	0.4	6.9	0.3	0.6	5.0	14.3	9.7	23.9	1.1	0.2	3.4
3499	Fabricated metal products, n.e.c. -----	E2	46	14	0.9	10.8	0.7	1.5	7.2	19.7	17.8	37.3	(D)	0.5	7.5
35	Machinery, except electrical -----	-	650	154	28.1	351.5	17.8	35.1	195.5	792.4	777.1	1 527.5	59.5	22.7	476.4
351	Engines and turbines -----	-	6	4	0.9	8.6	0.7	1.3	5.6	19.3	17.9	32.5	(D)	BB	(D)
3519	Internal combustion engines, n.e.c. -----	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
352	Farm and garden machinery -----	E1	38	7	0.9	11.2	0.6	1.3	6.6	23.7	32.8	53.5	2.5	0.8	14.2
3523	Farm machinery and equipment -----	E1	38	7	0.9	11.2	0.6	1.3	6.6	23.7	32.8	53.5	2.5	CC	(D)
353	Construction and related machinery -----	-	111	53	11.1	151.9	7.5	14.7	90.6	383.6	389.8	747.9	18.8	7.9	151.9
3531	Construction machinery -----	-	26	16	4.5	68.2	2.6	5.3	35.8	148.2	221.6	352.8	5.5	3.8	76.6
3532	Mining machinery -----	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3533	Oil field machinery -----	-	58	28	5.6	71.0	4.2	7.9	47.2	198.8	149.0	341.9	12.0	3.6	66.9
3536	Hoists, cranes, and monorails -----	-	6	4	0.5	7.3	0.4	0.7	4.0	22.2	10.5	31.8	(D)	BB	(D)
354	Metalworking machinery -----	E5	37	2	0.2	2.3	0.2	0.3	1.7	3.7	1.8	5.5	0.4	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures -----	E4	24	2	0.2	1.6	0.1	0.2	1.2	2.3	1.0	3.2	0.4	(NA)	(NA)
355	Special industry machinery -----	-	42	15	1.9	25.0	1.3	2.4	12.8	71.1	43.3	110.3	(D)	1.4	28.2
3559	Special industry machinery, n.e.c. -----	-	31	12	1.8	23.1	1.2	2.2	11.9	65.8	40.6	102.2	2.4	1.2	24.0
356	General industrial machinery -----	-	91	29	4.3	55.1	2.9	5.5	30.4	145.7	109.2	253.0	5.9	4.7	72.3
3561	Pumps and pumping equipment -----	-	17	9	1.8	24.1	1.1	2.1	11.7	83.3	48.7	128.7	2.4	2.7	41.7
3562	Ball and roller bearings -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3563	Air and gas compressors -----	-	8	5	0.4	6.5	0.3	0.6	3.7	12.0	15.4	27.7	0.9	AA	(D)
3564	Blowers and fans -----	-	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3566	Speed changers, drives, and gears -----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3567	Industrial furnaces and ovens -----	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3569	General industrial machinery, n.e.c. -----	-	29	6	0.8	9.3	0.5	0.8	4.1	16.9	15.2	33.7	(D)	CC	(D)
357	Office and computing machines -----	-	10	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3573	Electronic computing equipment -----	-	5	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
358	Refrigeration and service machinery -----	E1	30	9	1.5	18.3	1.1	2.3	12.1	37.3	56.4	93.6	1.6	EE	(D)
3585	Refrigeration and heating equipment -----	E1	17	7	1.3	16.7	1.0	2.1	11.2	34.0	53.6	87.5	1.4	EE	(D)
359	Miscellaneous machinery, except electrical -----	E3	285	32	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	27.0
3599	Machinery, except electrical, n.e.c. -----	E3	282	31	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
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[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972		
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)	
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)							
E ¹																
36	Electric and electronic equipment -	-	121	47	11.9	146.1	9.4	17.5	101.9	400.4	448.5	813.3	24.5	10.9	202.4	
361	Electric distributing equipment -	-	9	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
3613	Switchgear and switchboard apparatus -	-	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
362	Electrical industrial apparatus -	-	12	7	1.6	15.7	1.1	1.8	9.2	22.7	38.5	58.4	0.8	CC	(D)	
3621	Motors and generators -	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
3622	Industrial controls -	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
364	Electric lighting and wiring equipment -	-	13	5	0.4	3.7	0.3	0.7	2.6	12.8	4.7	16.5	(D)	AA	(D)	
3648	Lighting equipment, n.e.c. -	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
365	Radio and TV receiving equipment -	E1	13	2	0.4	3.5	0.3	0.5	2.4	4.8	7.4	13.0	0.2	BB	(D)	
3651	Radio and TV receiving sets -	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
366	Communication equipment -	-	29	15	7.4	101.5	6.0	11.3	73.1	306.2	359.3	834.0	(D)	FF	(D)	
3661	Telephone and telegraph apparatus -	-	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
3662	Radio and TV communication equipment -	-	27	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
367	Electronic components and accessories -	-	31	10	1.4	13.5	1.1	2.4	9.5	31.4	17.4	48.2	3.2	EE	(D)	
3674	Semiconductors and related devices -	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
3678	Electronic connectors -	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
3679	Electronic components, n.e.c. -	E1	26	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
369	Miscellaneous electrical equipment and supplies -	-	11	4	0.4	4.9	0.3	0.6	3.0	14.2	9.9	23.2	(D)	AA	(D)	
3691	Storage batteries -	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
37	Transportation equipment -	-	164	59	11.5	147.0	8.7	17.1	100.7	308.9	275.2	573.6	5.9	8.8	150.0	
371	Motor vehicles and equipment -	-	98	33	4.8	51.1	3.8	7.2	34.0	146.8	122.2	263.8	(D)	2.7	52.1	
3713	Truck and bus bodies -	E4	16	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
3714	Motor vehicle parts and accessories -	-	51	18	3.6	40.2	2.9	5.4	26.1	122.3	90.8	208.0	3.8	EE	(D)	
3715	Truck trailers -	E1	29	12	0.9	8.5	0.7	1.4	6.1	19.8	25.8	45.6	(D)	CC	(D)	
372	Aircraft and parts -	-	24	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
3721	Aircraft -	-	7	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
3724	Aircraft engines and engine parts -	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
3728	Aircraft equipment, n.e.c. -	-	13	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
373	Ship and boat building and repairing -	E1	22	4	0.2	2.0	0.2	0.4	1.4	3.3	7.1	10.2	(D)	0.2	1.9	
3732	Boat building and repairing -	E1	22	4	0.2	2.0	0.2	0.4	1.4	3.3	7.1	10.2	(D)	AA	(D)	
379	Miscellaneous transportation equipment -	E1	32	12	0.9	8.2	0.8	1.6	6.1	15.2	35.7	51.4	(D)	EE	(D)	
3792	Travel trailers and campers -	-	17	5	0.5	3.8	0.4	0.8	2.8	5.8	17.7	23.9	0.4	CC	(D)	
3799	Transportation equipment, n.e.c. -	E1	15	7	0.5	4.3	0.4	0.8	3.3	9.4	18.0	27.5	(D)	0.5	7.0	
38	Instruments and related products -	-	80	21	2.5	31.5	1.4	2.8	13.2	141.5	52.6	190.0	8.1	CC	(D)	
382	Measuring and controlling devices -	-	34	11	1.2	17.1	0.5	1.0	5.0	31.5	17.0	46.2	1.9	CC	(D)	
3823	Process control instruments -	-	11	7	1.0	14.6	0.4	0.7	3.8	26.4	13.4	37.5	1.8	(NA)	(NA)	
384	Medical instruments and supplies -	E1	22	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
3841	Surgical and medical instruments -	E2	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
3842	Surgical appliances and supplies -	-	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
3861	Photographic equipment and supplies -	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
39	Miscellaneous manufacturing industries -	E1	160	20	1.9	16.1	1.5	2.7	10.9	42.2	35.1	76.6	3.5	EE	(D)	
394	Toys and sporting goods -	-	34	8	1.0	7.3	0.9	1.5	5.4	24.8	22.5	46.7	(D)	CC	(D)	
3949	Sporting and athletic goods, n.e.c. -	-	31	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
399	Miscellaneous manufactures -	E3	100	10	0.7	7.6	0.6	1.0	4.8	15.1	10.7	25.7	(D)	CC	(D)	
3993	Signs and advertising displays -	E1	52	5	0.3	3.8	0.2	0.5	2.4	8.3	3.5	11.7	0.9	0.5	6.5	
3999	Manufacturing industries, n.e.c. -	E7	33	3	0.3	2.8	0.2	0.4	1.7	5.6	4.5	10.1	(D)	0.2	2.4	
-	Administrative and auxiliary -	-	73	35	14.2	264.6	-	-	-	-	-	-	-	(NA)	(NA)	

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for these industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972	
			All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
		E ¹													
	Fort Smith, Ark.-Okla., SMSA -	-	338	119	23.3	230.4	19.2	37.8	171.2	553.8	848.4	1 383.3	34.0	18.8	281.4
20	Food and kindred products --	-	40	20	2.8	25.9	2.3	4.6	17.8	78.1	299.4	377.1	3.9	2.6	48.1
205	Bakery products -----	-	5	3	0.4	4.2	0.2	0.4	2.1	7.4	7.8	15.2	0.5	0.4	5.2
23	Apparel and other textile products -----	E3	9	5	0.4	2.6	0.4	0.8	2.1	3.4	2.8	6.2	0.1	0.4	1.9
24	Lumber and wood products --	-	31	6	0.4	3.7	0.4	0.6	2.8	6.0	9.8	15.8	0.4	0.5	4.8
25	Furniture and fixtures -----	-	53	20	5.5	43.9	4.7	9.3	34.1	89.2	95.7	177.6	3.5	4.9	57.3
251	Household furniture -----	-	47	18	5.3	42.0	4.6	9.0	32.6	85.7	91.9	170.3	(D)	4.6	52.6
275	Commercial printing -----	-	19	3	0.4	4.5	0.3	0.6	3.1	7.3	4.0	11.1	(D)	0.3	4.9
32	Stone, clay, and glass products -----	-	34	9	0.7	6.8	0.6	1.2	5.6	15.4	17.0	33.1	0.4	1.0	16.8
33	Primary metal industries ----	-	5	4	0.4	4.3	0.3	0.6	2.7	8.3	8.2	15.8	1.1	(NA)	(NA)
344	Fabricated structural metal products -----	E1	10	2	0.3	2.8	0.2	0.4	1.6	4.2	4.6	9.6	0.1	(NA)	(NA)
35	Machinery, except electrical -	-	34	8	2.9	34.5	2.3	5.0	27.3	83.6	103.0	182.0	3.7	(NA)	(NA)
39	Miscellaneous manufacturing industries ---	-	9	3	0.4	3.1	0.3	0.6	2.3	8.8	3.0	11.6	0.1	0.6	8.0
-	Administrative and auxiliary --	-	6	5	0.4	6.9	-	-	-	-	-	-	-	(NA)	(NA)
	Lawton SMSA -----	-	65	14	1.5	13.1	1.0	1.9	7.1	25.4	35.3	60.6	3.4	1.5	20.7
20	Food and kindred products --	-	12	4	0.5	4.6	0.2	0.4	1.7	10.8	23.0	33.8	2.0	0.5	10.6
	Oklahoma City SMSA -----	-	1 067	284	43.1	548.2	28.7	55.7	310.3	1 261.0	1 787.0	2 995.5	93.8	41.0	787.0
20	Food and kindred products --	-	84	43	5.6	73.2	3.6	7.5	43.8	190.5	644.2	831.0	16.1	5.5	110.5
201	Meat products -----	-	21	9	1.8	26.5	1.3	2.8	19.3	39.2	253.2	292.9	1.1	1.7	36.1
202	Dairy products -----	-	9	6	0.6	8.3	0.3	0.6	2.9	13.2	65.7	78.7	2.0	0.6	12.4
204	Grain mill products -----	-	10	6	0.7	9.2	0.5	1.1	6.4	57.2	120.7	178.2	(D)	0.6	10.7
205	Bakery products -----	-	8	4	0.7	11.1	0.4	0.9	5.3	18.0	21.5	39.4	1.7	0.7	16.1
2051	Bread, cake, and related products -----	-	8	4	0.7	11.1	0.4	0.9	5.3	18.0	21.5	39.4	1.7	0.7	16.1
206	Beverages -----	-	9	6	0.7	8.5	0.2	0.4	2.0	22.5	44.2	66.7	2.7	0.6	8.9
2066	Bottled and canned soft drinks -----	-	9	6	0.7	8.5	0.2	0.4	2.0	22.5	44.2	66.7	2.7	0.6	8.9
239	Miscellaneous fabricated textile products -----	E1	21	6	0.4	3.1	0.4	0.7	2.2	6.0	11.4	16.8	0.3	0.4	5.5
25	Furniture and fixtures -----	E1	31	7	0.4	4.0	0.3	0.6	2.7	7.4	8.9	16.0	0.6	0.4	6.1
27	Printing and publishing -----	-	216	26	4.0	46.1	2.2	3.9	23.6	96.7	54.3	152.3	4.7	3.3	58.4
2752	Commercial printing, lithographic -----	-	54	9	0.6	7.9	0.5	0.9	5.7	15.9	16.6	32.5	1.0	0.7	10.3
29	Petroleum and coal products -----	-	14	3	0.3	3.7	0.2	0.4	1.9	10.3	24.0	33.7	0.6	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	34	12	2.9	33.1	2.3	4.1	23.7	82.1	91.8	174.3	5.1	2.1	39.0
32	Stone, clay, and glass products -----	-	61	17	1.4	17.7	0.9	2.0	9.9	44.5	40.4	84.8	4.4	1.5	27.6
327	Concrete, gypsum, and plaster products -----	-	36	11	1.0	13.6	0.7	1.5	7.5	30.9	34.9	65.9	3.6	1.0	20.6
11273	Ready-mixed concrete --	-	11	3	0.4	5.7	0.2	0.4	2.9	14.7	23.9	38.7	(D)	0.5	9.8
33	Primary metal industries ----	-	14	5	0.5	6.1	0.4	0.9	4.3	10.6	20.4	31.0	0.7	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Oklahoma City SMSA—Con.														
34	Fabricated metal products ---	-	121	42	5.3	65.1	3.4	7.1	36.8	146.0	136.3	277.5	10.6	4.3	73.9
344	Fabricated structural metal products -----	-	65	27	3.5	43.8	2.2	4.5	24.4	88.4	90.8	176.1	4.0	3.1	47.2
3441	Fabricated structural metal -----	-	12	8	1.1	12.6	0.7	1.4	6.6	27.4	36.2	61.9	1.0	1.1	14.1
3442	Metal doors, sash, and trim -----	-	13	7	1.2	14.4	0.8	1.6	9.3	33.4	25.6	58.5	0.8	1.1	20.1
3443	Fabricated plate work (boiler shops) -----	E1	11	4	0.5	6.3	0.4	0.8	4.3	10.4	7.8	17.6	(D)	0.3	3.2
3448	Prefabricated metal buildings -----	E1	6	2	0.5	6.9	0.2	0.4	1.9	10.1	13.0	22.8	0.1	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	25	9	1.4	18.0	1.0	2.0	10.0	48.3	39.3	86.1	(D)	0.9	23.4
3499	Fabricated metal products, n.e.c. -----	E5	11	3	0.3	2.8	0.2	0.4	2.0	4.4	3.5	7.8	0.2	(NA)	(NA)
35	Machinery, except electrical -	-	161	39	6.2	81.9	4.2	8.5	44.1	156.7	184.9	335.8	7.0	5.8	202.7
356	General industrial machinery -----	-	21	6	1.0	10.6	0.7	1.4	6.0	33.6	27.7	59.8	1.4	(NA)	(NA)
37	Transportation equipment ---	-	57	16	4.1	48.5	3.0	5.7	30.8	94.6	123.7	211.9	2.3	3.2	62.1
3714	Motor vehicle parts and accessories -----	-	25	8	1.9	24.1	1.5	2.8	14.7	54.2	46.2	96.8	(D)	(NA)	(NA)
38	Instruments and related products -----	-	25	6	0.7	8.8	0.4	0.8	3.8	57.0	9.8	66.6	1.1	(NA)	(NA)
39	Miscellaneous manufacturing industries ---	E3	56	8	0.4	3.7	0.3	0.5	2.3	8.0	6.0	14.0	0.6	(NA)	(NA)
-	Administrative and auxiliary --	-	24	13	2.4	42.3	-	-	-	-	-	-	-	(NA)	(NA)
	Tulsa SMSA -----	-	1 272	391	58.9	774.3	37.0	72.9	427.9	1 701.5	2 141.8	3 809.8	152.5	44.9	704.3
208	Beverages -----	-	6	4	0.6	6.9	0.3	0.5	2.1	6.7	20.4	27.1	2.0	0.6	10.0
2086	Bottled and canned soft drinks -----	-	6	4	0.6	6.9	0.3	0.5	2.1	6.7	20.4	27.1	2.0	0.6	10.0
22	Textile mill products -----	-	6	4	0.5	4.2	0.4	0.9	3.6	11.6	19.7	31.7	(D)	(NA)	(NA)
23	Apparel and other textile products -----	-	25	12	1.3	7.4	1.2	2.2	6.7	18.3	17.7	35.7	0.3	1.0	9.6
24	Lumber and wood products ---	E1	34	9	0.5	4.8	0.4	0.7	3.1	8.7	12.4	21.0	0.7	0.5	7.2
25	Furniture and fixtures -----	E1	20	2	0.5	5.9	0.4	0.9	4.3	11.4	7.4	16.8	0.4	0.5	6.5
26	Paper and allied products ---	E1	14	6	0.7	9.5	0.5	1.1	7.3	25.4	38.3	63.7	2.0	0.4	10.4
27	Printing and publishing -----	E1	169	21	2.6	31.1	1.6	2.9	16.7	70.7	30.0	100.6	5.3	2.5	40.3
28	Chemicals and allied products -----	-	40	12	1.0	13.9	0.7	1.4	8.8	81.0	106.1	185.5	21.9	0.7	23.7
30	Rubber and miscellaneous plastics products -----	-	43	16	1.4	14.8	1.1	2.2	10.0	46.2	37.3	82.5	2.3	0.9	15.3
3079	Miscellaneous plastics products -----	-	35	14	1.2	12.8	0.9	1.8	8.6	42.8	34.7	76.5	2.1	(NA)	(NA)
32	Stone, clay, and glass products -----	-	74	20	3.6	52.1	3.0	6.0	39.0	171.1	105.5	277.9	23.5	2.8	54.6
33	Primary metal industries ---	-	42	22	2.9	39.5	2.3	4.4	28.1	82.8	87.9	152.3	5.7	2.3	40.1
332	Iron and steel foundries ---	-	10	9	1.3	15.6	1.0	2.1	11.9	19.7	18.6	38.8	1.8	0.8	11.1
34	Fabricated metal products ---	-	232	103	10.8	148.7	8.2	16.4	99.4	316.6	318.7	644.6	17.8	8.4	133.8
344	Fabricated structural metal products -----	-	123	64	7.0	96.5	5.4	10.7	66.4	215.9	238.2	458.6	8.6	6.0	98.6
3441	Fabricated structural metal -----	-	22	11	1.6	19.5	1.2	2.0	12.3	30.7	34.0	65.0	2.1	2.0	26.9
3443	Fabricated plate work (boiler shops) -----	-	63	42	4.8	71.0	3.9	8.0	50.3	173.0	188.2	365.6	6.1	3.7	67.0
3444	Sheet metal work -----	E1	20	9	0.3	3.6	0.2	0.4	2.2	6.8	6.9	13.4	0.2	(NA)	(NA)
347	Metal services, n.e.c. -----	E1	28	9	0.5	5.1	0.4	0.9	3.4	8.0	4.4	12.4	0.4	0.6	7.5
3471	Plating and polishing -----	E1	16	7	0.3	2.9	0.2	0.5	1.9	4.6	1.8	6.4	0.2	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	54	22	2.8	40.3	1.9	4.0	25.3	81.0	63.1	149.2	7.9	1.4	22.2
3494	Valves and pipe fittings -----	-	16	10	2.0	27.2	1.2	2.6	16.1	53.2	41.3	99.8	(D)	(NA)	(NA)
3499	Fabricated metal products, n.e.c. -----	E1	22	7	0.4	5.7	0.3	0.7	3.8	12.4	10.8	23.2	(D)	(NA)	(NA)
35	Machinery, except electrical -	-	285	77	14.1	172.9	7.7	15.2	86.4	395.7	387.9	759.7	36.1	9.8	174.7
353	Construction and related machinery -----	-	47	27	5.0	71.6	3.0	6.0	39.4	177.5	226.7	386.8	8.2	3.2	60.4
3531	Construction machinery -	-	11	10	3.0	44.6	1.6	3.2	23.1	90.7	172.9	249.1	3.0	2.2	37.4
3533	Oil field machinery -----	-	24	13	1.6	20.6	1.1	2.2	13.4	70.0	44.0	112.2	(D)	(NA)	(NA)
355	Special industry machinery -----	-	24	8	1.2	17.2	0.8	1.7	9.3	43.9	30.3	70.3	(D)	0.8	16.0
356	General industrial machinery -----	-	49	15	2.4	32.9	1.5	2.7	16.7	94.5	59.5	154.2	3.1	2.2	39.5
3561	Pumps and pumping equipment -----	-	8	5	1.2	17.7	0.8	1.3	8.6	52.8	30.6	92.5	1.7	1.1	23.4
3569	General industrial machinery, n.e.c. -----	-	20	5	0.7	7.9	0.4	0.7	3.4	14.1	12.8	28.5	0.7	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E3	131	17	1.3	14.9	1.0	2.1	10.5	26.2	11.9	37.8	2.6	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E3	131	17	1.3	14.9	1.0	2.1	10.5	26.2	11.9	37.8	2.6	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
		E ¹													
	Tulsa SMSA—Con.														
36	Electric and electronic equipment -----	-	51	19	3.5	36.9	2.4	4.5	21.3	63.6	68.3	129.2	5.2	1.9	23.4
37	Transportation equipment ---	-	38	14	4.4	70.6	3.2	6.5	49.3	142.3	63.4	200.9	3.3	3.9	69.1
38	Instruments and related products -----	E1	40	8	0.6	7.1	0.4	0.8	3.8	16.5	9.9	26.1	(D)	0.5	7.3
3823	Process control instruments -----	-	5	3	0.3	3.6	0.2	0.4	2.0	9.7	4.6	14.0	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries ---	-	59	8	1.0	9.1	0.9	1.5	6.4	27.8	23.1	50.2	2.5	1.0	20.0
-	Administrative and auxiliary --	-	31	15	5.5	90.1	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.

(Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expen- ditures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
35	Adair County -----	-	20	5	1.0	6.9	0.8	1.7	4.6	19.8	41.6	61.0	0.8	0.8	7.6
	Bryan County -----	-	36	15	1.3	10.9	1.0	1.8	8.1	24.0	36.0	59.4	0.7	0.8	10.3
	Canadian County -----	-	43	10	1.3	16.1	0.8	1.4	7.1	39.6	31.1	68.5	2.2	1.5	27.5
	Cleveland County -----	-	78	14	1.5	18.2	1.1	2.1	10.8	38.9	60.4	98.3	1.2	1.5	29.6
	Creek County -----	-	63	21	2.9	33.1	2.5	4.7	25.2	62.6	54.9	116.4	5.3	2.5	37.3
	Custer County -----	-	30	8	1.4	12.5	1.0	2.0	8.1	65.9	58.4	123.1	(D)	0.8	18.4
	Garfield County -----	-	78	18	3.0	37.7	1.7	3.3	20.6	152.2	450.1	601.5	(D)	2.2	47.1
	Machinery, except electrical --	-	18	3	1.1	13.2	0.8	1.5	8.7	37.0	40.9	75.9	1.3	0.7	10.9
37	Grady County -----	-	58	23	2.6	23.6	2.2	4.5	17.4	69.7	66.5	134.9	5.1	1.5	16.8
	Transportation equipment ---	-	20	10	1.3	11.9	1.1	2.3	9.1	33.9	31.6	64.7	1.6	0.6	5.8
28	Key County -----	-	78	28	2.9	41.7	2.3	4.8	29.6	100.8	758.9	853.5	13.5	5.2	56.0
	Lincoln County -----	-	28	7	0.9	7.5	0.8	1.4	6.3	20.4	47.4	66.6	0.7	0.7	7.2
	Logan County -----	-	21	5	0.8	5.8	0.6	1.1	3.5	13.2	13.2	26.4	(D)	0.8	10.4
	Mayes County -----	-	50	25	2.6	31.4	2.1	4.2	23.3	74.3	113.1	187.0	9.6	1.2	30.1
	Chemicals and allied products -----	-	7	4	0.5	6.0	0.4	0.7	4.4	12.9	34.9	47.2	(D)	(NA)	(NA)
	Muskogee County -----	-	93	26	4.0	45.0	3.1	5.7	30.8	121.0	129.6	251.0	8.1	3.6	65.0
20	Food and kindred products --	E2	18	7	0.6	6.0	0.4	0.8	3.1	13.4	43.6	57.5	(D)	0.9	10.5

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977										1972		
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
	Oklahoma County -----	-	886	241	38.1	492.2	25.1	48.9	278.2	1 135.5	1 616.2	2 705.2	65.3	38.8	714.7
20	Food and kindred products --	-	65	37	5.1	68.2	3.3	6.9	40.9	176.8	587.6	770.6	14.2	5.0	106.1
201	Meat products-----	-	15	8	1.7	26.0	1.3	2.8	18.9	38.9	247.9	287.4	1.1	(NA)	(NA)
23	Apparel and other textile products -----	E1	23	8	0.8	6.5	0.7	1.2	4.0	10.3	15.2	24.9	0.4	1.1	13.1
27	Printing and publishing -----	-	178	21	3.6	42.4	2.0	3.6	21.9	90.1	51.7	143.0	4.4	3.0	53.6
275	Commercial printing -----	E1	113	12	1.3	15.5	1.0	1.9	11.2	27.9	23.9	52.5	1.4	0.9	15.1
2751	Commercial printing, letterpress -----	E1	62	3	0.7	7.9	0.5	1.0	5.6	12.5	7.6	20.8	0.4	(NA)	(NA)
3079	Miscellaneous plastics products-----	-	25	8	0.6	6.2	0.5	1.0	4.3	19.9	23.8	44.1	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	47	15	1.2	15.4	0.8	1.7	8.5	35.5	34.5	70.1	3.8	1.2	22.0
34	Fabricated metal products ---	-	108	39	5.1	63.5	3.3	6.9	35.9	142.6	132.0	269.8	10.4	4.2	72.8
344	Fabricated structural metal products -----	-	60	26	3.5	43.0	2.2	4.5	24.1	87.0	89.2	173.0	4.0	3.0	46.2
3442	Metal doors, sash, and trim -----	-	12	7	1.2	14.4	0.8	1.6	9.3	33.4	25.6	58.5	0.6	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	22	9	1.4	17.8	1.0	2.0	9.9	48.2	38.8	85.5	(D)	0.9	23.3
35	Machinery, except electrical --	-	138	32	4.4	57.4	3.1	6.3	31.9	99.1	126.8	225.0	4.8	5.0	162.0
358	Refrigeration and service machinery -----	E1	14	4	0.5	5.2	0.4	0.8	3.7	10.9	10.4	20.9	0.5	(NA)	(NA)
37	Transportation equipment ---	-	41	13	3.8	46.5	2.6	5.5	29.5	90.9	113.2	197.8	2.0	(NA)	(NA)
371	Motor vehicles and equipment -----	-	24	8	2.2	26.7	1.8	3.4	16.6	64.2	52.7	112.3	(D)	2.0	43.7
-	Administrative and auxiliary --	-	22	13	2.4	42.3	-	-	-	-	-	-	-	(NA)	(NA)
	Okmulgee County -----	-	33	10	1.3	15.5	1.0	2.0	11.4	52.7	128.5	173.3	(D)	1.6	33.4
	Osage County -----	-	39	7	0.9	8.2	0.8	1.5	6.5	34.8	40.2	71.5	1.2	5.1	42.2
	Ottawa County -----	-	66	19	4.1	50.6	3.4	6.5	40.6	127.9	134.4	258.8	(D)	3.7	75.5
23	Apparel and other textile products -----	E2	3	3	0.7	3.6	0.5	1.1	2.9	4.8	11.3	15.9	(D)	(NA)	(NA)
	Payne County -----	-	53	15	2.1	24.2	1.7	3.3	18.5	55.8	132.4	189.8	13.9	1.2	24.0
	Pittsburg County -----	-	25	8	1.4	11.0	1.0	1.9	6.7	19.8	25.4	45.1	0.8	1.3	8.9
	Pontotoc County -----	-	34	14	1.9	19.4	1.6	3.0	14.8	50.6	61.2	132.1	4.7	1.6	26.0
	Pottawatomie County -----	-	50	16	2.0	20.3	1.5	2.9	13.1	44.5	72.5	114.4	24.0	1.1	14.4
	Rogers County -----	-	38	18	1.7	22.2	1.2	2.5	13.7	116.0	92.3	204.6	22.6	0.6	6.0
35	Machinery, except electrical --	-	11	5	0.6	7.5	0.4	0.9	4.0	15.6	21.9	35.0	(D)	(NA)	(NA)
	Seminole County -----	-	36	13	1.8	13.3	1.5	2.9	10.8	34.6	62.7	94.0	0.9	1.6	13.0
	Sequoyah County -----	-	29	7	0.6	6.1	0.5	0.9	4.2	27.8	20.2	48.5	(D)	0.3	9.9
	Tillman County -----	-	15	6	0.7	5.0	0.7	1.2	4.0	10.7	10.8	20.1	0.8	0.8	5.7
	Tulsa County -----	-	1 068	317	50.1	674.2	30.2	59.3	357.0	1 408.7	1 831.6	3 215.7	113.6	35.3	584.5
208	Beverages-----	-	6	4	0.6	6.9	0.3	0.5	2.1	6.7	20.4	27.1	2.0	(NA)	(NA)
2086	Bottled and canned soft drinks-----	-	6	4	0.6	6.9	0.3	0.5	2.1	6.7	20.4	27.1	2.0	(NA)	(NA)
23	Apparel and other textile products -----	E1	20	7	0.5	2.8	0.4	0.8	2.2	5.3	7.3	12.1	(D)	(NA)	(NA)
27	Printing and publishing -----	E1	146	19	2.5	29.5	1.5	2.8	16.0	67.7	28.6	96.2	5.2	(NA)	(NA)
275	Commercial printing -----	E3	87	8	0.7	7.6	0.5	1.0	5.7	12.7	10.7	23.4	1.1	0.5	8.8
32	Stone, clay, and glass products -----	-	48	13	1.8	30.6	1.4	3.2	22.4	110.3	76.6	187.7	(D)	1.2	24.7
34	Fabricated metal products ---	-	194	87	9.6	132.9	7.2	14.5	87.6	282.2	287.9	578.6	16.4	7.1	119.9
344	Fabricated structural metal products -----	-	102	52	6.0	82.9	4.6	9.2	56.1	186.2	213.2	403.0	7.6	5.2	90.5
3443	Fabricated plate work (boiler shops) -----	-	46	31	3.9	57.7	3.1	6.5	40.3	144.1	165.0	312.5	5.1	(NA)	(NA)
347	Metal services, n.e.c. -----	E1	28	9	0.5	5.1	0.4	0.9	3.4	8.0	4.4	12.4	0.4	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	43	20	2.7	39.3	1.8	3.8	24.5	78.4	59.6	143.2	7.8	(NA)	(NA)
35	Machinery, except electrical --	-	246	65	12.9	158.4	6.8	13.5	77.7	356.3	344.8	682.2	31.6	8.8	157.5
353	Construction and related machinery -----	-	40	24	4.8	69.7	2.9	5.7	38.1	172.4	222.7	378.1	7.8	(NA)	(NA)
3559	Special industry machinery, n.e.c. -----	-	16	7	1.0	14.9	0.7	1.4	7.7	30.4	21.3	49.4	0.9	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E2	114	14	1.1	13.5	0.9	1.9	9.5	23.9	11.0	34.7	2.3	0.9	13.7
3599	Machinery, except electrical, n.e.c. -----	E2	114	14	1.1	13.5	0.9	1.9	9.5	23.9	11.0	34.7	2.3	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	54	8	1.0	8.9	0.9	1.5	6.3	27.5	23.0	49.8	(D)	1.0	19.9
-	Administrative and auxiliary --	-	30	15	5.5	90.0	-	-	-	-	-	-	-	(NA)	(NA)
	Wagoner County -----	-	14	3	0.6	5.1	0.3	0.6	2.3	5.2	9.8	14.5	0.3	0.2	2.1
	Washington County -----	-	36	12	7.0	142.3	0.6	1.6	0.4	37.5	47.9	78.3	3.4	7.5	32.3
	Woodward County -----	-	17	3	0.5	4.1	0.5	0.9	3.2	8.5	7.6	16.9	0.2	0.6	3.8

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
 1 Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
 2 Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expen- diture (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
35	Broken Arrow -----	-	63	15	1.3	16.4	0.9	1.8	9.5	36.1	35.5	67.4	1.8	0.9	14.3
	Machinery, except electrical --	-	18	4	0.7	9.2	0.4	0.9	5.1	19.6	17.0	32.5	0.9	(NA)	(NA)
	Claremore -----	-	18	8	0.7	7.1	0.5	0.9	3.8	14.1	13.7	27.4	(D)	(NA)	(NA)
	Cushing -----	-	17	5	0.6	7.4	0.5	0.9	5.7	8.2	78.2	91.5	3.8	0.5	9.4
	Del City -----	-	14	6	0.5	5.3	0.4	0.7	3.4	24.9	49.2	74.9	2.1	(NA)	(NA)
	Duncan -----	-	48	6	3.1	35.6	2.5	4.5	25.3	86.2	65.9	149.9	5.4	(D)	(D)
	Durant -----	-	23	10	1.0	9.1	0.8	1.5	6.6	21.3	23.7	44.3	0.6	(D)	(D)
	Edmond -----	-	28	7	0.9	10.2	0.7	1.3	7.2	53.7	76.5	130.1	1.1	0.5	9.7
	El Reno -----	-	20	8	0.5	4.4	0.3	0.6	2.5	9.7	16.5	25.9	(D)	(NA)	(NA)
	Idabel -----	-	14	5	0.6	4.3	0.5	0.9	3.5	7.4	12.9	20.7	0.6	(NA)	(NA)
	Lawton -----	-	59	14	1.5	13.0	1.0	1.9	7.0	25.2	34.1	59.2	3.3	(D)	(D)
	Miami -----	-	35	14	3.4	44.8	2.9	5.4	36.6	114.3	115.1	227.1	4.1	3.0	70.2
	Midwest City -----	-	24	5	0.6	8.1	0.5	1.0	4.3	11.5	24.4	35.4	2.0	0.8	10.4
	Muskogee -----	-	81	21	3.2	34.6	2.4	4.4	22.7	95.2	105.4	200.8	7.3	3.5	62.8
	Norman -----	-	59	12	1.4	16.7	1.0	1.9	9.9	35.8	57.5	92.3	1.0	1.4	27.1
201 205 2051	Oklahoma City -----	-	772	218	35.1	461.4	23.0	44.6	255.2	1 047.7	1 416.8	2 417.2	61.7	33.8	562.0
	Meat products -----	-	15	8	1.7	26.0	1.3	2.8	18.9	38.9	247.9	287.4	1.1	(NA)	(NA)
	Bakery products -----	-	5	4	0.7	11.0	0.4	0.9	5.2	17.9	21.4	39.2	1.7	(NA)	(NA)
	Bread, cake, and related products -----	-	5	4	0.7	11.0	0.4	0.9	5.2	17.9	21.4	39.2	1.7	(NA)	(NA)
27 275 2752	Printing and publishing -----	-	147	19	3.3	38.9	1.9	3.3	20.7	84.0	48.9	134.2	4.1	(NA)	(NA)
	Commercial printing -----	E1	95	12	1.2	14.9	1.0	1.8	10.7	26.8	23.3	50.8	1.3	(NA)	(NA)
	Commercial printing, lithographic -----	-	43	8	0.6	7.1	0.4	0.8	5.2	14.5	16.0	30.4	1.0	(NA)	(NA)
32	Stone, clay, and glass products -----	-	37	13	1.1	14.1	0.7	1.5	7.6	31.4	31.1	62.6	(D)	(NA)	(NA)
34 3443	Fabricated metal products ---	-	94	36	5.0	61.7	3.2	6.6	34.7	138.0	129.1	262.4	10.3	(NA)	(NA)
	Fabricated plate work (boiler shops) -----	-	8	4	0.5	6.1	0.4	0.7	4.2	9.8	7.2	16.4	(D)	(NA)	(NA)
35 353	Machinery, except electrical --	-	125	34	5.1	67.4	3.4	6.9	35.4	122.1	135.6	255.0	6.0	(NA)	(NA)
	Construction and related machinery -----	E1	29	11	1.2	17.6	0.8	1.4	8.1	41.5	21.2	60.7	2.6	(NA)	(NA)
-	Administrative and auxiliary --	-	21	13	2.4	41.8	-	-	-	-	-	-	-	(NA)	(NA)
-	Poteau -----	-	12	3	0.5	4.1	0.3	0.6	3.0	6.3	6.0	12.2	0.1	(NA)	(NA)
-	Pryor Creek -----	-	34	20	2.1	24.2	1.6	3.3	17.5	55.2	79.8	135.6	8.9	0.8	19.5
-	Sand Springs -----	-	37	16	1.8	25.5	1.4	3.0	17.4	66.5	87.0	132.0	3.4	1.9	41.0
34	Fabricated metal products ---	-	10	7	0.5	7.9	0.4	0.9	5.4	20.0	18.8	38.5	0.4	(NA)	(NA)
	Sapulpa -----	-	19	6	1.7	19.6	1.4	2.6	15.1	40.8	22.7	62.9	(D)	1.4	24.5
	Shawnee -----	-	44	16	1.9	19.9	1.5	2.8	12.9	43.7	71.0	112.1	(D)	(D)	(D)
-	Stillwater -----	-	28	9	1.4	16.2	1.2	2.3	12.3	48.5	51.9	95.1	10.0	0.7	14.5

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Tulsa -----	-	901	263	43.3	584.1	25.5	50.0	301.8	1 197.9	1 580.3	2 761.7	103.1	34.8	533.0
27	Printing and publishing -----	-	133	17	2.4	28.6	1.5	2.7	15.5	65.6	27.4	83.0	5.0	(NA)	(NA)
275	Commercial printing -----	E3	78	7	0.6	7.0	0.5	1.0	5.3	11.6	9.7	21.3	1.0	(NA)	(NA)
2752	Commercial printing, lithographic -----	E2	46	7	0.6	6.3	0.5	0.9	4.8	10.2	8.7	18.9	1.0	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	28	10	1.0	9.6	0.8	1.6	6.6	29.8	22.4	51.8	(D)	(NA)	(NA)
3079	Miscellaneous plastics products -----	-	24	8	0.8	7.8	0.6	1.3	5.3	26.6	20.1	46.4	1.2	(NA)	(NA)
34	Fabricated metal products ---	-	180	68	7.6	106.4	5.7	11.4	69.7	233.7	238.5	479.7	14.2	(NA)	(NA)
344	Fabricated structural metal products -----	-	79	39	4.5	62.9	3.6	7.1	43.4	153.5	170.1	325.8	5.9	(NA)	(NA)
3441	Fabricated structural metal -----	E1	14	7	0.8	10.0	0.6	1.0	6.3	17.3	18.5	35.8	1.3	(NA)	(NA)
3443	Fabricated plate work (boiler shops) -----	-	36	22	3.3	47.9	2.7	5.5	33.9	127.0	143.3	272.7	4.3	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	E1	41	17	2.4	35.1	1.5	3.2	20.8	66.2	55.8	127.6	7.5	(NA)	(NA)
3494	Valves and pipe fittings ---	-	13	8	1.7	24.1	1.0	2.2	13.6	47.4	38.4	91.1	5.9	(NA)	(NA)
35	Machinery, except electrical -	-	208	59	11.0	132.4	5.8	11.3	65.1	283.1	247.5	521.5	28.4	7.9	136.0
353	Construction and related machinery -----	-	32	20	3.2	48.3	2.1	4.1	28.3	106.4	134.2	233.2	(D)	(NA)	(NA)
355	Special industry machinery -	-	20	7	1.1	15.2	0.7	1.4	7.8	31.6	21.7	51.0	0.9	(NA)	(NA)
3559	Special industry machinery, n.e.c. -----	-	16	7	1.1	15.0	0.7	1.4	7.7	30.6	21.4	49.7	0.9	(NA)	(NA)
356	General industrial machinery -----	-	39	12	2.0	26.8	1.2	2.1	13.1	83.8	45.7	130.4	1.8	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E2	92	14	1.1	12.5	0.9	1.8	8.8	22.2	10.3	32.3	2.0	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E2	92	14	1.1	12.5	0.9	1.8	8.8	22.2	10.3	32.3	2.0	(NA)	(NA)
36	Electric and electronic equipment -----	-	44	16	2.9	32.0	2.1	4.0	19.3	58.6	58.9	115.3	5.0	(NA)	(NA)
38	Instruments and related products -----	E1	38	7	0.6	6.6	0.4	0.7	3.5	15.6	9.9	25.1	0.8	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	48	8	1.0	8.8	0.8	1.5	6.2	27.2	22.5	49.1	2.5	(NA)	(NA)
-	Administrative and auxiliary --	-	30	15	5.5	90.0	-	-	-	-	-	-	-	(NA)	(NA)
	Wewoka -----	-	15	7	0.8	5.5	0.8	1.1	4.1	11.4	8.2	19.1	0.1	0.8	2.7
23	Apparel and other textile products -----	E2	4	3	0.6	3.7	0.5	0.9	3.2	6.0	6.2	13.7	0.1	(NA)	(NA)

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
OKLAHOMA	3818	328	1	19	135	183	95	38	636	104	49	104	28	300	82	448	650	121	184	80	160	73
1 TO 4 EMPLOYEES	1716	125	1	5	41	81	49	8	414	55	17	38	11	135	21	137	303	48	81	36	100	10
5 TO 9 EMPLOYEES	533	44	1	1	8	38	16	4	74	16	6	16	3	44	11	77	306	17	22	13	21	6
10 TO 19 EMPLOYEES	502	39	-	1	7	25	14	8	70	12	4	10	6	58	6	63	97	19	22	10	19	22
20 TO 49 EMPLOYEES	488	48	-	3	17	23	14	8	50	11	5	16	2	35	15	90	79	17	23	11	15	12
50 TO 99 EMPLOYEES	229	36	-	1	21	27	3	4	12	4	2	7	4	9	12	38	23	8	21	4	2	11
100 TO 249 EMPLOYEES	212	24	-	5	27	7	4	5	11	6	8	10	2	11	11	27	29	11	5	4	2	3
250 TO 499 EMPLOYEES	37	9	-	3	13	2	1	1	3	1	2	4	-	4	1	6	8	3	4	1	1	4
500 TO 999 EMPLOYEES	37	2	-	1	1	-	-	-	1	-	2	-	-	4	1	6	8	3	4	1	1	4
1000 TO 2499 EMPLOYEES	10	1	-	-	-	-	-	-	1	-	-	3	-	-	-	-	2	1	-	-	-	2
2500 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ADAIR COUNTY	20	10	-	-	1	-	-	-	5	-	-	-	-	1	-	-	-	2	-	1	-	-
1 TO 4 EMPLOYEES	15	7	-	-	1	-	-	-	5	-	-	-	-	1	-	-	-	-	-	-	-	-
5 TO 9 EMPLOYEES	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 TO 19 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALFALFA COUNTY	7	-	-	-	-	-	-	-	1	2	-	-	-	1	-	-	2	-	-	-	1	-
1 TO 4 EMPLOYEES	7	-	-	-	-	-	-	-	1	2	-	-	-	1	-	-	2	-	-	-	1	-
ATOKA COUNTY	11	-	-	-	1	4	1	-	2	-	-	-	-	2	-	1	-	-	-	-	-	-
1 TO 4 EMPLOYEES	9	-	-	-	1	4	1	-	2	-	-	-	-	2	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BEAVER COUNTY	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 4 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BECKHAM COUNTY	18	5	-	-	1	-	-	-	4	-	-	-	-	4	-	-	2	1	-	-	-	1
1 TO 4 EMPLOYEES	13	2	-	-	1	-	-	-	3	-	-	-	-	3	-	-	2	1	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BLAINE COUNTY	15	2	-	1	-	1	1	-	2	1	1	-	-	5	-	-	1	-	-	-	-	-
1 TO 4 EMPLOYEES	12	1	-	-	-	1	1	-	2	1	1	-	-	4	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BRYAN COUNTY	36	10	-	-	3	3	-	-	6	-	-	1	1	4	-	1	2	-	5	-	-	-
1 TO 4 EMPLOYEES	21	6	-	-	1	2	-	-	5	-	-	1	1	4	-	1	-	-	2	-	-	-
20 TO 99 EMPLOYEES	12	3	-	-	2	1	-	-	1	-	-	1	-	-	-	1	2	-	3	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CADDO COUNTY	17	1	-	1	2	-	1	-	5	-	1	-	-	4	-	1	1	-	-	-	-	-
1 TO 4 EMPLOYEES	14	1	-	-	-	-	1	-	4	-	-	-	-	4	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANADIAN COUNTY	43	5	-	-	-	1	1	-	9	2	-	1	-	1	-	2	7	1	8	4	1	-
1 TO 4 EMPLOYEES	33	4	-	-	-	1	1	-	8	1	-	1	-	1	-	1	5	1	7	2	1	-
20 TO 99 EMPLOYEES	8	-	-	-	-	-	-	-	1	1	-	-	-	1	-	1	1	-	1	1	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CARTER COUNTY	47	9	-	-	2	1	-	-	4	1	2	4	1	5	-	3	5	1	1	1	4	3
1 TO 4 EMPLOYEES	28	3	-	-	1	1	-	-	3	1	-	2	1	4	-	1	5	-	1	1	4	2
20 TO 99 EMPLOYEES	12	5	-	-	1	-	-	-	1	1	-	1	-	1	-	1	1	-	1	1	1	1
100 TO 249 EMPLOYEES	5	1	-	-	1	-	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHEROKEE COUNTY	16	1	-	-	2	2	-	-	4	-	-	-	-	4	-	1	1	1	-	-	-	-
1 TO 4 EMPLOYEES	14	1	-	-	1	2	-	-	4	-	-	-	-	4	-	1	1	1	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHOCTAW COUNTY	15	1	-	-	2	5	-	-	2	1	-	-	1	-	-	-	2	-	1	1	-	-
1 TO 4 EMPLOYEES	12	1	-	-	2	5	-	-	2	1	-	-	-	-	-	-	-	-	1	1	-	-
20 TO 99 EMPLOYEES	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
CIMARRON COUNTY.	2	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLEVELAND COUNTY.	78	5	-	-	1	1	-	1	21	-	1	2	-	7	3	6	13	3	5	1	6
1 TO 19 EMPLOYEES.	64	4	-	-	1	1	-	1	19	-	1	2	-	6	2	5	10	1	4	1	4
20 TO 99 EMPLOYEES.	12	1	-	-	-	-	-	-	1	-	-	-	-	1	1	1	2	2	1	-	2
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
COAL COUNTY.	4	2	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	3	2	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COMANCHE COUNTY.	65	12	-	-	4	1	5	1	17	3	1	-	-	4	-	4	5	1	1	1	4
1 TO 19 EMPLOYEES.	50	8	-	-	2	1	5	1	15	3	1	-	-	2	-	3	4	1	1	1	3
20 TO 99 EMPLOYEES.	1	1	-	-	1	-	-	-	1	-	-	-	-	2	-	1	1	-	-	-	1
100 TO 249 EMPLOYEES.	4	3	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COTTON COUNTY.	5	-	-	-	1	-	-	-	1	-	-	-	-	1	-	1	1	-	-	-	-
1 TO 19 EMPLOYEES.	4	-	-	-	1	-	-	-	1	-	-	-	-	1	-	1	1	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRAIG COUNTY.	13	2	-	-	1	-	-	-	2	1	-	-	-	2	-	-	1	1	1	-	1
1 TO 19 EMPLOYEES.	9	1	-	-	-	-	-	-	1	1	-	-	-	-	-	-	1	1	1	-	1
20 TO 99 EMPLOYEES.	3	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
CREEK COUNTY.	63	5	-	1	1	-	-	-	8	-	-	1	-	12	2	11	13	1	6	1	1
1 TO 19 EMPLOYEES.	42	4	-	-	-	-	-	-	7	-	-	1	-	8	-	6	11	1	3	1	1
20 TO 99 EMPLOYEES.	14	-	-	-	-	-	-	-	1	-	-	-	-	1	2	3	1	1	3	1	1
100 TO 249 EMPLOYEES.	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-
250 EMPLOYEES AND OVER.	3	-	-	-	1	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
CUSTER COUNTY.	30	8	-	2	1	-	-	-	7	-	-	1	1	4	-	1	2	-	-	1	2
1 TO 19 EMPLOYEES.	24	6	-	-	-	-	-	-	6	-	-	1	1	3	-	1	2	-	-	-	2
20 TO 99 EMPLOYEES.	4	1	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	2	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DELAWARE COUNTY.	20	2	-	-	-	1	-	-	5	1	-	1	-	2	-	-	4	-	4	-	-
1 TO 19 EMPLOYEES.	17	1	-	-	-	-	-	-	5	1	-	1	-	2	-	-	4	-	3	-	-
20 TO 99 EMPLOYEES.	2	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DEWEY COUNTY.	7	1	-	-	-	-	-	-	3	-	-	-	-	2	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES.	7	1	-	-	-	-	-	-	3	-	-	-	-	2	-	-	-	-	-	-	-
ELLIS COUNTY.	5	1	-	-	-	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	4	1	-	-	-	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GARFIELD COUNTY.	78	9	-	-	4	2	-	-	12	4	6	4	-	3	1	8	18	1	2	-	1
1 TO 19 EMPLOYEES.	60	4	-	-	4	1	-	-	10	3	4	4	-	3	1	7	15	1	1	-	1
20 TO 99 EMPLOYEES.	9	3	-	-	1	-	-	-	1	1	1	-	-	3	-	1	1	1	1	-	1
100 TO 249 EMPLOYEES.	5	2	-	-	-	-	-	-	1	1	1	-	-	-	-	-	2	-	-	-	-
250 EMPLOYEES AND OVER.	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GARVIN COUNTY.	28	2	-	-	3	1	-	-	5	1	1	-	-	2	-	1	4	2	3	-	3
1 TO 19 EMPLOYEES.	17	1	-	-	1	1	-	-	4	1	-	-	-	1	-	-	1	2	2	-	2
20 TO 99 EMPLOYEES.	8	1	-	-	1	-	-	-	1	-	-	-	-	1	-	-	1	1	1	-	1
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRADY COUNTY.	58	9	-	1	1	2	2	-	6	-	-	-	-	1	-	6	5	2	20	-	3
1 TO 19 EMPLOYEES.	35	7	-	1	1	1	1	-	5	-	-	-	-	1	-	5	3	1	10	-	2
20 TO 99 EMPLOYEES.	16	1	-	1	1	-	-	-	1	-	-	-	-	-	-	-	1	1	8	-	1
100 TO 249 EMPLOYEES.	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
250 EMPLOYEES AND OVER.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRANT COUNTY.	8	-	-	-	-	-	-	-	1	-	-	-	-	1	1	-	3	-	1	-	1
1 TO 19 EMPLOYEES.	8	-	-	-	-	-	-	-	1	-	-	-	-	1	1	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
GREER COUNTY	6	1	-	-	-	-	-	-	2	-	-	-	-	2	-	1	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	5	1	-	-	-	-	-	-	2	-	-	-	-	1	-	1	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HARMON COUNTY	4	1	-	-	-	-	1	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	
1 TO 19 EMPLOYEES	3	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HARPER COUNTY	3	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	
HASKELL COUNTY	4	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	
1 TO 19 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HUGHES COUNTY	6	-	-	-	1	1	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	4	-	-	-	1	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JACKSON COUNTY	17	3	-	-	2	-	-	-	5	-	-	-	-	1	-	1	2	-	2	1	-	-	
1 TO 19 EMPLOYEES	14	2	-	-	1	-	-	-	4	-	-	-	-	1	-	1	2	-	2	1	-	-	
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JEFFERSON COUNTY	11	-	-	-	2	2	-	-	2	-	-	-	1	1	-	1	1	-	1	-	-	-	
1 TO 19 EMPLOYEES	8	-	-	-	1	1	-	-	2	-	-	-	1	1	-	1	1	-	1	-	-	-	
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
JOHNSTON COUNTY	8	-	-	-	1	-	-	-	2	-	-	-	-	1	-	-	1	-	3	-	-	-	
1 TO 19 EMPLOYEES	6	-	-	-	1	-	-	-	2	-	-	-	-	1	-	-	1	-	3	-	-	-	
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KAY COUNTY	78	8	-	-	3	2	3	2	9	1	1	1	-	7	5	9	19	2	2	2	2	2	
1 TO 19 EMPLOYEES	50	6	-	-	1	2	3	3	7	-	-	1	-	7	1	5	11	2	2	2	2	2	
20 TO 99 EMPLOYEES	23	-	-	-	2	-	-	2	2	1	-	-	-	-	3	3	6	-	-	-	-	-	
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2	-	-	-	-	-	
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KINGFISHER COUNTY	15	2	-	-	-	-	-	1	3	-	-	-	-	5	-	-	3	-	1	-	-	-	
1 TO 19 EMPLOYEES	14	2	-	-	-	-	-	-	3	-	-	-	-	5	-	-	2	-	1	-	-	-	
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
KIOWA COUNTY	13	-	-	-	-	-	-	-	5	-	-	-	-	5	-	1	2	-	-	-	-	-	
1 TO 19 EMPLOYEES	12	-	-	-	-	-	-	-	5	-	-	-	-	5	-	1	2	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
LATIMER COUNTY	4	1	-	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LE FLORE COUNTY	38	3	-	1	2	8	6	-	2	-	-	-	-	9	-	2	4	1	-	-	-	-	
1 TO 19 EMPLOYEES	32	3	-	1	1	7	5	-	2	-	-	-	-	8	-	2	4	-	-	-	-	-	
20 TO 99 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LINCOLN COUNTY	28	3	-	-	2	-	-	-	4	-	-	-	1	4	1	2	1	1	4	-	1	1	
1 TO 19 EMPLOYEES	21	3	-	-	1	-	-	-	4	-	-	-	1	3	1	1	1	1	4	-	1	1	
20 TO 99 EMPLOYEES	4	-	-	-	-	-	-	-	-	2	-	-	-	1	-	2	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LOGAN COUNTY	21	-	-	1	1	1	3	-	7	1	-	-	-	1	-	2	2	-	1	-	1	1	
1 TO 19 EMPLOYEES	16	-	-	1	1	1	2	-	6	-	-	-	-	1	-	2	2	-	-	-	-	-	
20 TO 99 EMPLOYEES	3	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	1	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LOVE COUNTY	4	1	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
MC CLAIN COUNTY.	10	2	-	-	2	-	-	-	2	-	-	1	-	-	-	1	-	1	-	-	-	1	-
1 TO 19 EMPLOYEES.	7	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	3	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MC CURTAIN COUNTY.	66	3	-	-	2	43	-	3	6	-	-	-	-	2	-	3	2	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	48	2	-	-	-	32	-	1	6	-	-	-	-	2	-	2	2	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	10	-	-	-	1	7	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	3	-	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	5	1	-	-	1	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MC INTOSH COUNTY.	8	-	-	-	2	-	-	-	1	-	-	-	-	2	1	-	-	-	1	-	1	-	-
1 TO 19 EMPLOYEES.	6	-	-	-	1	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAJOR COUNTY.	8	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	2	1	2	-	-	-	-
1 TO 19 EMPLOYEES.	6	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	1	1	2	-	-	-	-
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARSHALL COUNTY.	12	-	-	1	1	1	-	-	1	-	-	-	-	3	-	-	1	-	4	-	-	-	-
1 TO 19 EMPLOYEES.	9	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES.	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAYES COUNTY.	50	3	-	1	2	1	2	4	3	7	-	2	-	5	1	8	7	1	1	-	2	-	-
1 TO 19 EMPLOYEES.	25	1	-	-	-	-	-	-	-	-	-	-	-	4	-	4	4	-	3	-	-	-	-
20 TO 99 EMPLOYEES.	17	2	-	-	1	1	-	2	1	3	-	2	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	6	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MURRAY COUNTY.	7	1	-	-	-	-	-	-	2	-	-	-	-	1	-	1	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	7	1	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-
MUSKOGEE COUNTY.	93	18	-	-	1	-	4	1	12	1	1	1	1	10	3	12	13	1	3	4	6	1	-
1 TO 19 EMPLOYEES.	67	11	-	-	-	2	-	-	11	-	-	-	-	7	1	8	11	-	3	3	-	-	-
20 TO 99 EMPLOYEES.	13	5	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	9	2	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
NOBLE COUNTY.	8	2	-	-	1	-	-	-	1	-	-	-	-	1	-	1	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	6	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NOWATA COUNTY.	12	2	-	-	1	1	-	-	1	-	-	-	-	2	1	-	3	1	-	-	-	-	-
1 TO 19 EMPLOYEES.	9	2	-	-	-	-	-	-	1	-	-	-	-	2	-	-	2	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OKFUSKEE COUNTY.	11	-	-	-	2	1	1	1	2	-	-	-	-	-	-	1	1	1	2	-	1	-	-
1 TO 19 EMPLOYEES.	8	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OKLAHOMA COUNTY.	886	65	-	3	23	36	30	13	178	29	11	28	8	47	9	108	136	32	41	20	47	22	-
1 TO 19 EMPLOYEES.	645	28	-	1	15	27	23	6	157	26	8	18	7	32	6	69	104	24	16	16	41	9	8
20 TO 99 EMPLOYEES.	169	24	-	1	4	8	6	7	14	3	2	6	1	11	3	28	24	3	8	2	6	8	1
100 TO 249 EMPLOYEES.	41	7	-	1	4	1	1	-	4	-	1	2	-	4	-	4	3	2	2	-	-	-	-
250 EMPLOYEES AND OVER.	31	6	-	-	-	-	-	-	3	-	-	-	-	-	-	7	3	2	5	-	-	-	3
OKMULGEE COUNTY.	33	3	-	-	-	5	1	-	7	1	2	2	-	4	1	2	4	-	1	-	-	-	-
1 TO 19 EMPLOYEES.	23	1	-	-	-	1	-	-	6	-	1	1	-	2	-	2	2	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	7	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OSAGE COUNTY.	39	1	-	1	2	-	-	-	8	-	1	1	1	3	1	8	7	1	-	1	2	1	-
1 TO 19 EMPLOYEES.	32	-	-	-	-	-	-	-	-	-	-	-	-	3	1	7	6	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																			39	CAO's
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38		
OTTAWA COUNTY	66	5	-	1	3	4	-	-	5	1	1	1	3	6	3	8	16	1	4	-	4	-
1 TO 19 EMPLOYEES	47	5	-	1	3	4	-	-	4	1	1	-	1	5	1	6	15	1	2	-	4	-
20 TO 99 EMPLOYEES	13	2	-	-	-	-	-	-	1	-	1	-	2	1	2	1	1	-	2	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	2	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PAWNEE COUNTY	8	1	-	-	1	1	-	-	2	1	1	1	-	2	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	7	1	-	-	1	1	-	-	2	1	1	1	-	2	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PAYNE COUNTY	53	4	-	-	1	2	1	-	12	2	2	2	-	3	2	3	10	4	4	-	1	-
1 TO 19 EMPLOYEES	38	2	-	-	1	2	1	-	9	2	1	1	-	1	-	2	9	3	3	-	1	-
20 TO 99 EMPLOYEES	8	2	-	-	-	-	-	-	2	-	-	-	-	2	2	-	1	1	1	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
PITTSBURG COUNTY	25	7	-	-	2	-	-	-	7	-	-	1	-	4	-	2	-	1	-	1	-	-
1 TO 19 EMPLOYEES	17	6	-	-	-	-	-	-	5	-	-	-	-	4	-	1	-	-	-	1	-	-
20 TO 99 EMPLOYEES	4	1	-	-	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PONTOTOC COUNTY	34	8	-	-	2	2	1	-	3	1	1	3	-	4	-	-	7	1	1	-	2	-
1 TO 19 EMPLOYEES	20	4	-	-	1	2	1	-	2	1	1	1	-	1	-	-	6	-	1	-	2	-
20 TO 99 EMPLOYEES	9	4	-	-	1	-	-	-	1	-	-	-	-	1	-	-	1	-	1	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POTTAWATOMIE COUNTY	50	7	-	-	3	3	-	1	6	2	2	2	1	6	2	4	5	2	3	-	1	-
1 TO 19 EMPLOYEES	34	3	-	-	1	3	-	1	4	2	2	2	1	6	1	3	3	1	2	-	1	-
20 TO 99 EMPLOYEES	10	3	-	-	1	-	-	-	2	-	-	-	1	-	-	1	1	-	1	-	-	-
100 TO 249 EMPLOYEES	4	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PUSHMATAHA COUNTY	8	1	-	-	1	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	7	1	-	-	1	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROGER MILLS COUNTY	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROGERS COUNTY	38	2	-	-	-	3	-	-	3	1	-	1	1	4	1	8	11	-	3	-	-	-
1 TO 19 EMPLOYEES	20	2	-	-	-	2	-	-	2	-	-	1	1	2	1	3	6	-	1	-	-	-
20 TO 99 EMPLOYEES	12	-	-	-	-	1	-	-	1	-	-	-	1	1	1	4	3	-	1	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEMINOLE COUNTY	36	3	-	-	6	-	1	-	7	2	1	1	-	3	1	2	3	1	1	-	3	1
1 TO 19 EMPLOYEES	23	2	-	-	1	-	-	-	7	2	1	1	-	1	1	1	3	1	1	-	2	1
20 TO 99 EMPLOYEES	7	1	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	1	-	-	1	1
100 TO 249 EMPLOYEES	4	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEQUOYAH COUNTY	29	2	-	-	-	2	11	-	1	3	-	2	-	3	-	1	2	1	1	-	-	-
1 TO 19 EMPLOYEES	22	2	-	-	-	1	10	-	-	2	-	1	-	2	-	1	1	1	1	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STEPHENS COUNTY	62	3	-	-	1	-	-	-	8	1	1	-	-	5	2	4	30	1	4	-	1	1
1 TO 19 EMPLOYEES	53	1	-	-	-	-	-	-	1	-	-	-	-	5	1	4	27	1	3	-	-	-
20 TO 99 EMPLOYEES	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TEXAS COUNTY	12	5	-	-	-	1	-	-	4	-	-	-	-	-	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	8	3	-	-	-	1	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TILLMAN COUNTY	15	1	-	-	2	1	-	-	4	-	-	-	2	2	-	-	1	-	2	-	-	-
1 TO 19 EMPLOYEES	9	1	-	-	-	1	-	-	4	-	-	-	-	1	-	-	1	-	2	-	-	-
20 TO 99 EMPLOYEES	4	1	-	-	1	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
TULSA COUNTY	1078	43	-	3	20	27	18	10	146	31	7	38	5	48	36	194	246	46	28	38	30
1 TO 19 EMPLOYEES	751	30	-	2	13	20	16	7	127	24	3	24	4	35	17	107	181	30	19	31	54
20 TO 99 EMPLOYEES	222	7	-	1	6	7	-	-	16	7	2	9	1	10	11	65	42	8	7	6	15
100 TO 249 EMPLOYEES	54	3	-	-	1	-	2	2	1	-	-	5	-	1	5	14	13	4	-	1	10
250 EMPLOYEES AND OVER	41	3	-	-	-	-	-	-	2	-	2	-	-	2	3	8	10	4	2	-	4
WAGONER COUNTY	14	-	-	-	-	3	-	-	-	1	1	-	-	-	2	1	1	2	-	-	-
1 TO 19 EMPLOYEES	11	-	-	-	-	3	-	-	-	1	1	-	-	-	2	1	1	1	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WASHINGTON COUNTY	36	4	1	-	-	2	-	-	5	-	1	1	-	3	3	4	5	-	4	2	1
1 TO 19 EMPLOYEES	24	3	1	-	-	2	-	-	3	-	1	1	-	3	1	3	4	-	2	-	-
20 TO 99 EMPLOYEES	8	1	-	-	-	-	-	-	1	-	-	-	-	-	1	1	1	-	2	1	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
WASHITA COUNTY	16	-	-	-	3	-	-	-	2	-	-	-	-	3	1	2	1	-	2	-	-
1 TO 19 EMPLOYEES	14	-	-	-	2	-	-	-	2	-	-	-	-	3	1	2	1	-	1	-	2
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WOODS COUNTY	14	2	-	-	-	-	-	1	4	3	-	-	-	3	-	-	1	-	-	-	-
1 TO 19 EMPLOYEES	13	2	-	-	-	-	1	-	4	3	-	-	-	2	-	-	1	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
WOODWARD COUNTY	17	4	-	-	3	-	-	-	3	-	-	-	-	3	-	-	3	-	1	-	-
1 TO 19 EMPLOYEES	14	4	-	-	1	-	-	-	2	-	-	-	-	3	-	-	3	-	1	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

¹ Represents zero.

² Only those counties and size classes that include data for manufacturing establishments are shown.

Oregon

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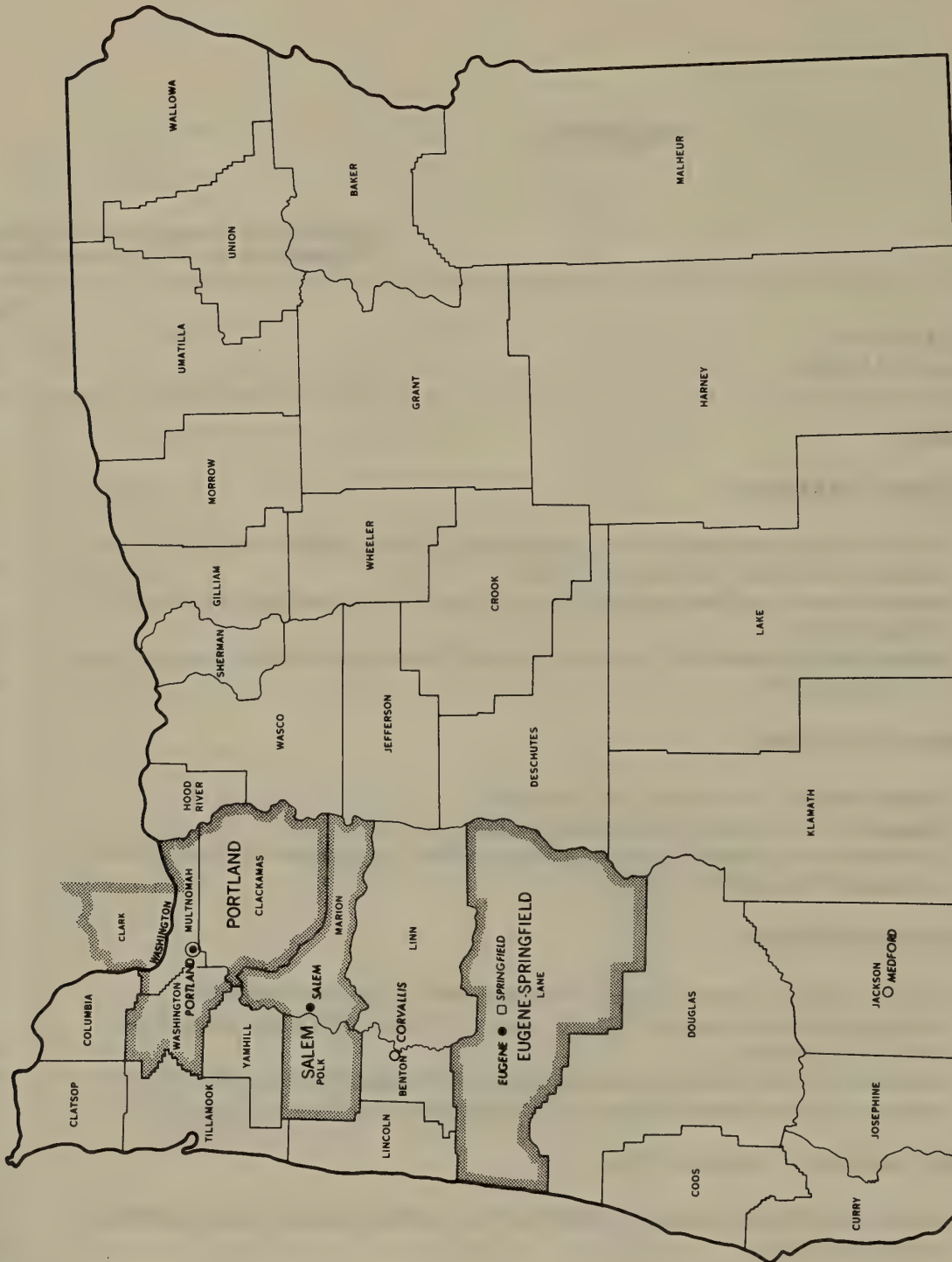
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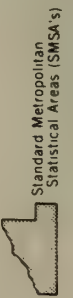
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OREGON



LEGEND

- Places of 100,000 or more inhabitants
- Places of 50,000 to 100,000 inhabitants
- Central cities of SMSA's with fewer than 50,000 inhabitants
- Places of 25,000 to 50,000 inhabitants outside SMSA's



SUMMARY OF FINDINGS

In 1977, 202.4 thousand persons were employed in Oregon's manufacturing establishments. This figure represented an increase of 13 percent from the 1972 figure of 178.6 thousand workers.

The total value added by manufacture for the State amounted to \$6,138 million in 1977, an increase of approximately 76 percent from the 1972 figure of \$3,490 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were lumber and wood products; food and kindred products; machinery, except electrical; and instruments and related products. They accounted for approximately 62 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 64 percent of the State's employment.

The most important counties in the State ranked by employment were Multnomah, Washington, Lane, and Clackamas. They accounted for approximately 53 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 53 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 5 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Oregon:						
1977.....	202.4	2,760.0	197.0	2,657.4	5.4	102.6
1972.....	178.6	1,627.3	173.7	1,565.2	4.9	62.1
1967.....	163.1	1,082.5	160.4	1,059.3	2.7	23.2
1963.....	145.2	819.6	143.1	803.0	2.0	16.6
STANDARD METROPOLITAN STATISTICAL AREAS						
Eugene-Springfield:						
1977.....	20.4	283.7	20.0	276.5	.4	7.2
1972.....	19.5	185.4	19.3	182.4	.2	3.0
1967.....	18.2	120.4	(D)	(D)	(D)	(D)
1963.....	18.3	100.9	(D)	(D)	(D)	(D)
Portland, Oreg.-Wash:						
1977.....	99.4	1,392.1	94.7	1,302.7	4.7	89.4
1972.....	86.4	808.9	82.4	757.8	4.0	51.1
1967.....	79.8	561.0	77.4	540.2	2.4	20.8
1963.....	65.3	392.8	63.3	377.0	1.9	15.8
Salem:						
1977.....	15.3	177.7	15.2	176.6	.1	1.1
1972.....	12.1	92.9	12.1	92.9	-	-
1967.....	9.5	55.5	9.5	55.5	-	-

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas:
1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers								Comparative indexes and U.S. employment				
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures ³ (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	Index of State em- ploy- ment change (1977= 100)	United States			
														Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)		
OREGON																	
1977 CENSUS.	5 716	1 580	202.4	2 760.0	155.1	291.6	1 901.7	6 138.0	8 317.0	14 370.0	574.5	1.03	100	100	19 596.9		
1976 ASM....	(NA)	(NA)	187.8	2 371.4	145.2	272.5	1 674.7	5 392.2	6 925.1	12 299.2	378.2	1.00	93	96	18 753.0		
1975 ASM....	(NA)	(NA)	180.8	2 037.7	137.7	252.7	1 423.5	4 437.4	5 903.6	10 310.8	439.3	.99	89	94	18 302.2		
1974 ASM....	(NA)	(NA)	191.7	1 965.8	150.9	282.4	1 395.3	4 498.3	5 557.8	9 899.7	412.7	.97	95	102	19 844.8		
1973 ASM....	(NA)	(NA)	192.1	1 863.2	149.8	298.4	1 320.9	4 284.0	4 820.9	9 067.0	332.6	.97	95	102	19 897.9		
1972 CENSUS.	4 670	1 461	178.6	1 627.3	141.5	271.3	1 170.0	3 489.9	4 104.3	7 571.2	267.3	.94	86	98	19 028.7		
1971 ASM....	(NA)	(NA)	169.4	1 406.8	131.9	252.8	1 011.7	2 806.6	3 390.0	6 183.0	232.3	.92	84	94	18 363.1		
1970 ASM....	(NA)	(NA)	169.2	1 292.6	131.8	249.5	929.8	2 508.2	3 041.0	5 521.6	226.1	.88	84	99	19 217.2		
1969 ASM....	(NA)	(NA)	173.5	1 260.3	139.3	266.6	923.5	2 612.8	3 181.4	5 730.1	255.6	.87	86	103	20 035.5		
1968 ASM....	(NA)	(NA)	167.2	1 170.2	135.2	263.1	868.0	2 452.9	2 910.4	5 322.2	198.4	.86	83	100	19 527.6		
1967 CENSUS.	4 437	1 275	163.1	1 082.5	131.2	254.8	798.2	2 060.5	2 552.2	4 612.2	234.2	.84	81	99	19 323.2		
1966 ASM....	(NA)	(NA)	160.9	1 029.9	128.7	252.0	767.8	1 992.3	2 450.1	4 404.4	284.1	.85	79	98	19 024.5		
1965 ASM....	(NA)	(NA)	153.6	944.9	123.7	242.2	712.2	1 817.3	2 344.9	4 134.6	230.5	.85	76	92	18 010.2		
1964 ASM....	(NA)	(NA)	148.5	893.9	120.2	237.3	672.6	1 698.9	2 213.3	3 892.7	141.5	.86	73	89	17 268.5		
1963 CENSUS.	4 881	1 225	145.2	819.6	117.6	226.4	617.1	1 574.8	(NA)	(NA)	132.0	.86	72	87	16 958.4		
PORTLAND, OREG.-WASH., SMSA																	
1977 CENSUS.	2 440	724	99.4	1 392.1	67.9	126.4	815.4	2 951.6	3 623.4	6 544.8	236.4	.51	100	100	19 596.9		
1976 ASM....	(NA)	(NA)	93.2	1 211.4	64.4	118.0	740.1	2 548.5	3 198.8	5 724.6	173.3	.50	94	96	18 753.0		
1975 ASM....	(NA)	(NA)	90.5	1 074.4	60.6	111.0	645.4	2 186.6	2 863.3	5 015.5	149.3	.49	91	94	18 302.2		
1974 ASM....	(NA)	(NA)	96.0	1 035.7	68.3	126.6	645.2	2 129.2	2 780.0	4 803.3	167.0	.48	97	102	19 844.8		
1973 ASM....	(NA)	(NA)	94.9	957.7	67.3	127.3	594.2	1 862.5	2 301.7	4 144.0	95.8	.48	95	102	19 897.9		
1972 CENSUS.	2 009	671	86.4	808.9	62.4	117.9	512.4	1 596.9	1 896.3	3 467.1	92.9	.45	87	98	19 028.7		
1971 ASM....	(NA)	(NA)	86.5	727.6	61.2	115.3	458.4	1 365.2	1 619.3	2 972.7	81.1	.47	87	94	18 363.1		
1970 ASM....	(NA)	(NA)	86.8	672.3	61.2	115.8	424.4	1 318.3	1 503.2	2 791.0	95.2	.45	87	99	19 217.2		
1969 ASM....	(NA)	(NA)	85.5	646.9	62.4	118.6	419.4	1 300.4	1 521.8	2 810.6	95.6	.43	86	103	20 035.5		
1968 ASM....	(NA)	(NA)	82.0	596.7	60.0	115.7	392.1	1 204.1	1 420.9	2 596.9	74.5	.42	82	100	19 527.6		
1967 CENSUS.	1 826	563	79.8	561.0	58.4	113.9	368.4	1 115.4	1 304.2	2 420.5	77.0	.41	80	99	19 323.2		
1966 ASM....	(NA)	(NA)	76.9	525.6	56.0	110.4	348.1	1 036.9	1 277.5	2 298.9	80.0	.40	77	98	19 024.5		
1965 ASM....	(NA)	(NA)	70.2	463.6	51.4	100.4	306.5	912.3	1 185.4	2 083.7	55.7	.39	71	92	18 010.2		
1964 ASM....	(NA)	(NA)	67.4	425.4	49.3	96.5	279.8	829.9	1 067.9	1 890.7	46.5	.39	68	89	17 268.5		
1963 CENSUS.	1 863	519	65.3	392.8	47.5	92.4	258.6	768.2	(NA)	(NA)	48.9	.39	66	87	16 958.4		

(NA) Not available.
¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.
²Including central administrative offices and auxiliaries (for definition, see appendix B).
³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
OREGON									
1977 CENSUS.....	13 635	77	1 881	6.52	58	77	30 323	45	21.05
1976 ASM.....	12 627	77	1 877	6.15	56	76	28 712	44	19.79
1975 ASM.....	11 270	76	1 835	5.63	57	77	24 543	46	17.56
1974 ASM.....	10 255	79	1 871	4.94	56	76	23 465	44	15.93
1973 ASM.....	9 699	78	1 992	4.43	53	74	22 301	43	14.36
1972 CENSUS.....	9 111	79	1 917	4.31	54	76	19 540	47	12.86
1971 ASM.....	8 305	78	1 917	4.00	55	78	16 568	50	11.10
1970 ASM.....	7 639	78	1 893	3.73	55	78	14 824	52	10.85
1969 ASM.....	7 264	80	1 914	3.46	56	78	15 059	48	9.80
1968 ASM.....	6 999	81	1 946	3.30	55	77	14 670	48	9.32
1967 CENSUS.....	6 637	80	1 942	3.13	55	79	12 633	53	8.09
1966 ASM.....	6 401	80	1 958	3.05	56	79	12 382	52	7.91
1965 ASM.....	6 152	81	1 958	2.94	57	80	11 831	52	7.50
1964 ASM.....	6 020	81	1 974	2.83	57	80	11 440	53	7.16
1963 CENSUS.....	5 644	81	1 925	2.73	(NA)	(NA)	10 846	52	6.96
PORTLAND, OREG.-WASH., SMSA									
1977 CENSUS.....	14 005	68	1 862	6.45	55	77	29 694	47	23.35
1976 ASM.....	12 998	69	1 832	6.27	56	77	27 344	48	21.60
1975 ASM.....	11 872	67	1 832	5.81	57	79	24 161	49	19.70
1974 ASM.....	10 789	71	1 854	5.10	58	79	22 179	49	16.82
1973 ASM.....	10 092	71	1 892	4.67	56	79	19 626	51	14.63
1972 CENSUS.....	9 362	72	1 889	4.35	55	78	18 483	51	13.54
1971 ASM.....	8 412	71	1 884	3.98	54	79	15 783	53	11.84
1970 ASM.....	7 745	71	1 892	3.66	54	78	15 188	51	11.38
1969 ASM.....	7 566	73	1 901	3.54	54	77	15 209	50	10.96
1968 ASM.....	7 277	73	1 928	3.39	55	78	14 654	50	10.41
1967 CENSUS.....	7 030	73	1 950	3.23	54	77	13 977	50	9.79
1966 ASM.....	6 835	73	1 971	3.15	56	78	13 484	51	9.39
1965 ASM.....	6 604	73	1 953	3.05	57	79	12 996	51	9.09
1964 ASM.....	6 312	73	1 957	2.90	56	79	12 313	51	8.60
1963 CENSUS.....	6 015	73	1 945	2.80	(NA)	(NA)	11 764	51	8.31

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

(For explanation of terms, see appendix B)

Item	Unit of measure	1977	1972
All establishments ¹ -----	number ----	5 716	4 670
With 1 to 19 employees -----	do -----	4 136	3 209
With 20 to 99 employees -----	do -----	1 108	1 026
With 100 employees or more -----	do -----	472	435
All employees, average for year ¹ -----	1,000 -----	202.4	178.6
Payroll for year, all employees ¹ -----	mil. dollars --	2 760.0	1 627.3
Production workers:			
Average for year -----	1,000 -----	155.1	141.5
March -----	do -----	144.5	131.4
May -----	do -----	148.9	136.4
August -----	do -----	168.4	154.9
November -----	do -----	157.9	143.3
Hours -----	millions -----	291.6	271.3
January to March -----	do -----	68.7	63.3
April to June -----	do -----	72.0	67.1
July to September -----	do -----	76.8	72.6
October to December -----	do -----	74.2	68.3
Wages -----	mil. dollars --	1 901.7	1 170.0
Cost of materials, etc. ² -----	do -----	8 317.0	4 104.3
Materials, parts, containers, etc., consumed -----	do -----	7 215.7	3 594.4
Resales -----	do -----	477.8	213.4
Fuels consumed -----	do -----	167.7	65.0
Purchased electric energy -----	do -----	139.4	58.3
Contract work -----	do -----	316.3	175.2
Value of shipments, including resales ² -----	do -----	14 370.0	7 571.2
Value of resales -----	do -----	538.0	262.5
Value added by manufacture -----	do -----	6 138.0	3 489.9
Manufacturers' inventories:			
Beginning of year -----	do -----	1 767.1	877.1
Finished products -----	do -----	687.2	394.6
Work in process -----	do -----	424.2	186.2
Materials, supplies, fuel, etc. -----	do -----	655.7	296.4
End of year -----	do -----	1 913.4	875.2
Finished products -----	do -----	772.3	359.9
Work in process -----	do -----	446.0	198.9
Materials, supplies, fuel, etc. -----	do -----	695.1	316.3
Capital expenditures for plant and equipment -----	do -----	618.7	287.2
New capital expenditures -----	do -----	574.5	267.3
New buildings and other structures -----	do -----	87.8	42.1
New machinery and equipment -----	do -----	486.7	225.2
Used capital expenditures -----	do -----	44.2	20.0

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
¹Including central administrative offices and auxiliaries (for definition, see appendix B).
²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	90.6	7
Beginning of year.....	4,401.6	1	Buildings and other structures.....	43.3	11
New capital expenditures.....	581.5	3	Machinery and equipment.....	47.1	6
Used capital expenditures.....	51.0	12			
Retirements.....	166.8	5	Depreciation charges during 1977:		
End of year.....	4,867.3	1	Total.....	485.4	2
Buildings and other structures:			Buildings and other structures.....	(56.3)	21
Beginning of year.....	886.8	2	Machinery and equipment.....	429.1	2
New capital expenditures.....	86.7	8			
Used capital expenditures.....	7.8	8	Supplemental labor costs:		
Retirements.....	28.4	7	Total.....	609.5	1
End of year.....	952.9	2	Legal costs.....	309.9	2
Machinery and equipment:			Voluntary costs.....	299.6	2
Beginning of year.....	3,514.9	1			
New capital expenditures.....	494.8	2	Purchased services:		
Automobiles, trucks, etc., for highway use...	17.5	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	8.6	(NA)	Buildings and other structures.....	(12.4)	31
All other.....	359.8	(NA)	Response coverage ratio (percent).....	59	(X)
New machinery and equipment, n.s.k.....	108.9	(NA)	Machinery.....	(86.1)	(A)
Used capital expenditures.....	43.2	14	Response coverage ratio (percent).....	59	(X)
Retirements.....	138.5	6	Cost of purchased communication services.....	(21.3)	(A)
End of year.....	3,914.4	1	Response coverage ratio (percent).....	58	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
(A) Indicates standard errors of 100 percent or more. Figures in parentheses have standard errors of 15 percent or more.
(NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E1	1977										1972		
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (milli- ons)	Wages (million dollars)						
Oregon -----	-	5 716	1 580	202.4	2 760.0	155.1	291.8	1 901.7	6 138.0	8 317.0	14 370.0	574.5	175.8	3 489.9
STANDARD METROPOLITAN STATISTICAL AREAS														
Eugene-Springfield-----	-	610	177	20.4	283.7	16.6	32.7	215.0	681.5	997.4	1 652.5	78.2	19.5	413.7
Portland, Oreg.-Wash.-----	-	2 440	724	89.4	1 392.1	87.9	126.4	815.4	2 951.6	3 623.4	6 544.8	236.4	86.4	1 596.8
Portion in Washington-----	-	258	69	12.2	179.0	9.5	18.3	129.5	439.2	717.2	1 156.8	33.1	11.3	245.9
Portion in Oregon-----	-	2 182	655	87.2	1 213.1	58.4	108.1	685.9	2 512.4	2 906.2	5 388.1	203.2	75.0	1 351.0
Salem-----	-	419	120	15.3	177.7	12.7	21.7	130.7	427.4	586.9	1 001.7	31.8	12.1	222.1
COUNTIES														
Baker-----	E1	38	8	0.6	9.0	0.5	1.1	7.2	16.2	25.9	42.0	2.8	0.8	14.7
Benton-----	-	142	40	2.8	35.2	2.2	4.4	25.5	79.0	125.5	203.2	12.8	2.7	44.3
Clackamas-----	-	429	98	12.8	185.7	8.9	16.6	111.6	464.4	445.0	900.1	49.4	12.1	240.8
Clatsop-----	-	91	21	2.5	32.8	2.1	3.6	24.4	39.1	112.7	150.7	6.3	2.6	41.0
Columbia-----	-	92	21	3.5	59.6	3.0	5.7	47.9	217.9	250.6	466.4	20.0	3.2	112.3
Coos-----	-	191	42	5.8	77.8	4.8	9.0	85.9	166.4	333.6	499.8	16.4	5.1	113.2
Crook-----	-	37	12	1.7	21.5	1.5	2.8	18.6	52.7	71.7	124.7	1.8	1.9	37.9
Curry-----	-	64	11	1.3	18.6	1.2	2.4	16.6	40.7	59.4	95.3	4.0	1.7	25.4
Deschutes-----	-	125	27	3.2	38.9	2.7	5.1	30.2	70.1	127.0	196.1	9.3	2.8	50.4
Douglas-----	-	297	69	9.7	134.8	8.6	17.1	114.8	296.6	472.2	758.6	45.8	10.8	206.8
Gilliam-----	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Grant-----	-	40	7	0.6	8.8	0.5	1.1	7.8	19.6	29.6	49.5	1.7	0.4	10.4
Harney-----	-	16	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hood River-----	-	43	12	1.4	16.9	1.2	2.3	13.4	39.4	49.0	88.4	1.5	1.1	23.4
Jackson-----	-	271	66	7.9	102.6	6.5	12.3	79.8	269.6	330.7	601.5	15.6	7.2	159.4
Jefferson-----	E1	23	5	0.8	4.5	0.7	0.7	3.8	9.4	16.7	28.4	1.2	0.2	3.7
Josephine-----	-	128	31	3.4	43.2	2.9	5.7	35.7	110.6	146.6	257.5	5.3	2.3	46.3
Klamath-----	-	108	41	4.8	68.1	4.0	7.9	55.7	150.5	240.6	389.3	17.7	4.5	84.0
Lake-----	E1	28	6	0.4	5.8	0.4	0.8	4.9	12.7	18.1	30.9	0.8	0.5	10.7
Lane-----	-	610	177	20.4	283.7	16.6	32.7	215.0	661.5	997.4	1 652.5	78.2	19.5	413.7
Lincoln-----	E1	84	17	2.0	27.8	1.7	3.0	22.8	73.8	123.9	197.2	23.0	1.6	39.7
Linn-----	-	245	78	11.1	168.9	9.1	17.5	129.9	401.5	559.0	855.4	29.6	9.4	212.4
Malheur-----	-	32	5	1.8	18.4	1.5	2.6	13.6	36.5	62.8	92.7	1.1	1.3	29.2
Marion-----	-	330	94	12.0	132.9	10.0	17.1	97.9	334.7	431.2	754.0	26.9	9.1	161.6
Morrow-----	-	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Multnomah-----	-	1 372	422	51.3	718.0	34.5	63.2	420.5	1 515.1	1 862.8	3 382.4	109.1	46.5	815.8
Polk-----	-	89	26	3.2	44.8	2.7	4.6	32.8	92.8	155.7	247.7	4.9	3.0	60.5
Sherman-----	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Tillamook-----	-	63	13	1.4	19.7	1.3	2.4	16.9	40.4	90.9	129.0	3.2	1.7	30.2
Umatilla-----	-	87	25	3.7	38.7	3.1	5.2	30.3	81.7	146.9	227.9	6.4	2.9	44.2
Union-----	-	59	9	1.6	23.3	1.4	2.7	19.2	57.0	64.0	120.7	(D)	1.6	41.8
Wallowa-----	E3	26	3	0.3	3.2	0.2	0.5	2.8	5.7	9.0	14.6	1.5	0.2	2.5
Wasco-----	-	21	7	1.1	16.3	0.8	1.6	12.6	44.8	64.8	113.6	4.4	1.1	27.6
Washington-----	-	381	135	23.1	309.3	15.0	28.4	153.8	533.0	598.4	1 105.5	44.8	16.4	294.3
Wheeler-----	E1	7	2	0.2	3.1	0.2	0.4	2.8	3.8	10.1	14.0	0.2	(D)	(D)
Yamhill-----	-	139	45	4.6	63.1	3.7	7.0	45.3	152.7	230.0	376.3	10.9	3.1	67.3
CITIES														
Albany-----	-	73	24	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.0	87.5
Astoria-----	E1	45	11	1.4	17.8	1.2	2.0	12.5	24.3	50.4	74.7	3.0	1.4	22.5
Baker-----	E1	28	6	0.5	6.9	0.4	0.8	5.4	11.6	20.7	32.3	(D)	0.6	11.0
Beaverton-----	-	79	32	2.8	37.7	1.8	3.4	21.2	82.2	103.3	182.6	5.8	1.4	26.3
Bend-----	-	75	11	1.2	12.2	1.0	1.8	9.2	28.1	31.7	59.4	2.4	1.7	25.8
Coos Bay-----	-	59	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	42.3
Corvallis-----	-	79	22	1.7	21.5	1.2	2.3	13.9	45.6	59.4	104.5	3.0	(D)	(D)
Dallas-----	-	29	5	1.1	17.9	0.8	1.4	11.2	36.0	49.6	84.0	(D)	1.0	19.9
Eugene-----	-	271	77	7.9	101.6	8.0	11.2	67.2	220.9	277.0	494.2	17.6	5.7	105.3
Forest Grove-----	-	32	12	1.2	13.1	1.0	1.9	9.5	25.1	45.0	69.1	2.6	(D)	(D)
Grants Pass-----	-	85	20	2.6	33.3	2.2	4.4	27.3	84.0	108.4	192.1	3.7	1.3	26.6
Hillsboro-----	E1	54	23	1.7	17.0	1.3	2.3	12.1	51.3	66.6	117.3	3.0	1.6	29.3
Hood River-----	-	30	7	0.9	9.3	0.7	1.5	6.8	20.6	21.4	41.7	0.8	(NA)	(NA)
Klamath Falls-----	-	72	23	3.3	48.0	2.8	5.4	38.9	112.2	178.5	289.0	14.7	3.2	61.9
La Grande-----	-	30	6	1.0	14.3	0.8	1.5	10.9	31.2	41.3	71.9	2.1	0.7	18.7
Lake Oswego-----	-	42	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.2
Lebanon-----	E1	40	13	1.9	29.0	1.7	3.3	23.8	59.7	86.0	155.6	3.1	1.7	40.3
McMinnville-----	-	48	22	2.2	28.9	1.7	3.3	20.3	65.0	120.8	182.2	2.4	1.5	28.2
Medford-----	-	101	25	3.3	43.8	2.6	5.0	32.8	113.4	121.6	235.8	7.1	3.1	87.9
Milwaukie-----	-	65	18	2.6	35.6	1.8	3.4	22.0	86.3	49.1	134.5	3.7	3.9	68.8
Newberg-----	-	34	10	1.2	18.0	0.9	1.6	11.0	48.3	38.8	86.4	5.5	(NA)	(NA)
North Bend-----	-	30	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Ontario-----	-	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Oregon City-----	-	28	6	1.0	17.5	0.7	1.2	10.3	50.3	44.6	94.9	(D)	1.0	27.4
Pendleton-----	-	26	6	1.0	10.5	0.8	1.8	8.2	12.9	45.7	58.7	1.4	1.2	14.6
Portland-----	-	1 137	345	42.7	598.9	27.5	50.1	329.3	1 223.6	1 465.9	2 700.2	(D)	40.8	737.5
Redmond-----	-	25	5	0.5	7.2	0.4	0.8	5.8	12.9	29.2	42.1	1.1	(NA)	(NA)
Roseburg-----	-	98	24	2.2	30.0	1.9	3.7	24.4	85.0	101.9	168.6	5.5	1.9	28.1
St. Helens-----	-	17	5	1.4	24.7	1.2	2.2	20.0	85.0	93.2	177.8	(D)	(NA)	(NA)
Salem-----	-	150	47	6.2	89.1	5.0	8.0	49.6	153.2	209.7	362.3	11.5	5.7	108.6
Seaside-----	-	28	2	0.5	8.3	0.4	0.7	6.0	1.2	32.8	33.9	(D)	(NA)	(NA)
Silverton-----	E1	26	4	0.5	4.3	0.3	0.5	2.9	8.7	11.1	19.7	1.4	(NA)	(NA)
Springfield-----	-	86	28	5.1	76.7	4.3	9.1	60.8	187.9	339.6	526.0	(D)	4.9	130.1
Stayton-----	-	18	8	1.6	14.7	1.4	2.4	12.2	45.0	44.4	83.0	2.1	1.5	17.1
Sweet Home-----	-	51	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	16.8
Tigard-----	E1	45	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	26.5
Toledo-----	-	15	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
West Linn-----	-	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Woodburn-----	E2	23	10	1.8	18.1	1.5	2.7	13.0	51.2	68.2	118.8	3.0	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	All Industries -----	-	5 716	1 580	202.4	2 760.0	155.1	291.6	1 901.7	6 138.0	8 317.0	14 370.0	574.5	178.6	3 489.9
20	Food and kindred products -----	-	413	181	23.2	257.0	18.4	31.1	174.0	668.2	1 270.5	1 923.2	48.8	21.9	417.9
201	Meat products -----	E1	57	19	2.3	29.2	1.8	3.4	21.6	64.2	247.4	312.5	3.6	2.4	38.9
2011	Meat packing plants -----	E2	36	8	0.7	10.3	0.6	1.2	8.2	19.9	109.8	129.6	1.2	0.6	11.0
2013	Sausages and other prepared meats -----	-	15	7	1.0	12.6	0.7	1.4	8.4	34.5	110.7	144.6	1.4	1.2	19.7
2016	Poultry dressing plants -----	-	6	4	0.6	6.2	0.6	0.8	5.1	9.9	26.9	38.2	1.0	0.6	8.2
202	Dairy products -----	-	52	25	1.7	25.8	0.9	1.7	13.4	64.8	207.5	269.3	3.2	EE	(D)
2022	Cheese, natural and processed -----	-	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2026	Fluid milk -----	-	35	22	1.3	21.0	0.6	1.2	10.1	54.1	156.5	209.8	2.6	1.6	33.7
203	Preserved fruits and vegetables -----	-	80	45	11.0	94.6	10.0	15.6	76.8	237.2	297.3	525.8	14.1	9.1	138.6
2033	Canned fruits and vegetables -----	-	28	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	62.1
2034	Dehydrated fruits, vegetables, and soups -----	E1	9	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.6
2035	Pickles, sauces, and salad dressings -----	-	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2037	Frozen fruits and vegetables -----	-	28	19	6.3	54.8	5.7	9.3	44.9	146.3	177.3	315.6	7.0	4.9	63.9
2038	Frozen specialties -----	-	9	4	0.6	6.5	0.5	0.9	4.3	16.5	22.0	38.5	1.5	BB	(D)
204	Grain mill products -----	-	43	15	0.9	13.0	0.6	1.2	7.7	41.9	129.0	171.7	1.5	1.0	28.4
2041	Flour and other grain mill products -----	-	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	7.2
2047	Dog, cat, and other pet food -----	-	7	4	0.3	4.6	0.2	0.4	2.7	19.0	32.2	51.8	(D)	BB	(D)
2048	Prepared feeds, n.e.c. -----	-	30	8	0.4	5.5	0.3	0.5	2.8	14.5	58.6	73.2	0.7	BB	(D)
205	Bakery products -----	-	41	18	2.6	40.4	1.6	3.0	22.7	115.8	70.7	186.9	15.7	2.6	70.5
2051	Bread, cake, and related products -----	-	35	13	1.6	27.3	0.8	1.6	13.5	61.6	39.5	101.2	14.9	EE	(D)
2052	Cookies and crackers -----	-	6	5	1.0	13.2	0.8	1.4	8.2	54.2	31.2	85.7	0.8	CC	(D)
206	Sugar and confectionery products -----	-	13	4	0.8	9.1	0.6	1.1	6.5	22.6	31.2	46.3	(D)	CC	(D)
2063	Beet sugar -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2065	Confectionery products -----	-	12	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
207	Fats and oils -----	-	17	5	0.3	4.3	0.2	0.4	2.4	11.1	107.2	120.4	(D)	0.2	8.2
2079	Shortening and cooking oils -----	-	3	3	0.2	2.7	0.1	0.3	1.3	5.6	96.3	104.0	0.4	(NA)	(NA)
208	Beverages -----	-	32	19	1.1	19.4	0.5	1.2	7.2	56.4	54.2	110.2	3.6	1.2	39.2
2082	Malt beverages -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2086	Bottled and canned soft drinks -----	-	23	15	0.8	13.4	0.3	0.9	4.5	32.0	28.3	60.1	2.5	CC	(D)
209	Miscellaneous foods and kindred products -----	E1	78	31	2.6	21.0	2.1	3.3	15.7	54.2	126.0	180.1	4.9	2.6	33.3
2091	Canned and cured seafoods -----	-	11	2	0.5	3.3	0.5	0.6	3.0	7.0	22.2	29.1	(D)	0.7	7.5
2092	Fresh or frozen packaged fish -----	E1	33	23	1.5	11.2	1.3	2.1	9.1	23.2	60.6	83.8	2.3	EE	(D)
2099	Food preparations, n.e.c. -----	E1	25	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	8.7
22	Textile mill products --	-	23	12	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2231	Weaving and finishing mills, wool -----	-	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
225	Knitting mills -----	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2253	Knit outerwear mills -----	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
23	Apparel and other textile products -----	-	116	24	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
232	Men's and boys' furnishings -----	-	9	5	0.7	4.4	0.6	1.0	3.8	11.1	14.9	25.4	(D)	CC	(D)
2321	Men's and boys' shirts and nightwear -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2329	Men's and boys' clothing, n.e.c. -----	-	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
233	Women's and misses' outerwear -----	E3	17	1	0.3	2.3	0.2	0.4	1.3	2.0	1.1	3.2	(D)	CC	(D)
2339	Women's and misses' outerwear, n.e.c. -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
23	Apparel and other textile products—Con.														
236	Children's outerwear -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2361	Children's dresses and blouses -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2369	Children's outerwear, n.e.c. --	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
239	Miscellaneous fabricated textile products -----	E1	76	14	1.0	8.6	0.8	1.5	5.4	18.7	23.0	41.1	(D)	EE	(D)
2391	Curtains and draperies -----	E1	32	7	0.4	3.1	0.3	0.5	1.7	5.7	5.8	11.3	(D)	BB	(D)
2393	Textile bags -----	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
24	Lumber and wood products -----	-	2 184	608	75.3	1 049.1	66.6	131.2	891.9	2 376.8	3 862.9	6 214.2	225.1	73.9	1 491.8
2411	Logging camps and logging contractors -----	E1	1 326	147	14.0	196.9	12.5	22.4	165.0	477.2	749.9	1 220.0	71.0	13.2	214.9
242	Sawmills and planing mills -----	-	404	220	26.1	370.1	23.3	47.1	315.4	845.9	1 408.2	2 250.5	94.5	27.7	613.5
2421	Sawmills and planing mills, general -----	-	332	210	25.1	363.0	22.4	45.8	309.5	831.4	1 395.3	2 223.5	93.4	26.8	605.6
2426	Hardwood dimension and flooring -----	-	9	4	0.4	2.4	0.4	0.5	2.0	4.0	4.2	8.2	0.1	0.4	2.7
2429	Special product sawmills, n.e.c. -----	E2	63	6	0.6	4.7	0.5	0.8	3.9	10.4	8.7	18.9	1.0	0.4	5.2
243	Millwork, plywood, and structural members -----	-	289	167	27.4	388.1	24.7	49.2	340.3	831.4	1 415.5	2 234.2	43.8	27.2	555.4
2431	Millwork -----	-	75	31	4.4	50.6	3.8	7.3	40.5	98.8	173.8	271.2	3.7	4.4	60.8
2434	Wood kitchen cabinets -----	-	64	15	1.3	12.5	1.1	2.0	10.4	23.6	27.5	50.4	2.8	BB	(D)
2435	Hardwood veneer and plywood -----	-	11	6	1.5	23.0	1.2	2.3	17.3	35.6	85.0	120.2	1.5	EE	(D)
2436	Softwood veneer and plywood -----	-	111	102	19.2	288.8	17.6	36.0	261.6	634.4	1 069.7	1 696.9	32.3	19.8	443.1
2439	Structural wood members, n.e.c. -----	-	28	13	1.0	13.3	0.9	1.6	10.4	38.0	59.5	95.6	3.5	CC	(D)
244	Wood containers -----	E1	22	7	0.6	3.7	0.5	0.8	3.0	5.7	9.8	15.5	0.7	0.4	3.2
2448	Wood pallets and skids -----	E3	11	3	0.2	1.4	0.2	0.3	1.2	2.8	4.5	7.3	(D)	(NA)	(NA)
2449	Wood containers, n.e.c. -----	-	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
245	Wood buildings and mobile homes -----	E1	26	18	2.7	32.1	2.3	4.6	23.0	69.8	123.9	192.5	5.8	1.5	23.7
2451	Mobile homes -----	E1	18	17	2.7	31.0	2.2	4.4	22.3	66.2	121.5	186.5	5.5	EE	(D)
249	Miscellaneous wood products --	-	117	49	4.4	58.3	3.6	7.1	45.2	146.6	155.5	301.4	9.6	3.9	81.2
2491	Wood preserving -----	-	12	10	0.5	6.2	0.4	0.7	4.5	15.1	29.8	45.1	1.1	BB	(D)
2492	Particleboard -----	-	12	11	1.6	23.9	1.3	2.5	18.7	67.4	69.4	136.3	4.4	EE	(D)
2499	Wood products, n.e.c. -----	-	93	28	2.3	28.2	1.9	3.8	22.0	64.2	56.4	120.0	4.1	1.4	29.9
25	Furniture and fixtures -	E1	123	31	2.7	28.3	2.3	4.2	20.1	55.1	46.6	103.3	(D)	2.5	35.3
251	Household furniture -----	E1	71	16	1.7	16.8	1.5	2.7	12.5	32.6	28.5	62.3	(D)	2.1	28.8
2511	Wood household furniture -----	E1	44	7	0.9	8.1	0.8	1.5	6.3	16.0	10.4	27.4	(D)	1.4	18.7
2512	Upholstered household furniture -----	E1	19	8	0.7	7.0	0.6	1.1	5.1	11.1	12.3	23.6	(D)	0.5	6.7
254	Partitions and fixtures -----	-	29	9	0.6	6.5	0.5	0.8	4.7	12.4	11.2	24.3	(D)	AA	(D)
2541	Wood partitions and fixtures -----	-	25	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2542	Metal partitions and fixtures -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
259	Miscellaneous furniture and fixtures -----	-	11	3	0.2	2.9	0.2	0.3	1.7	5.6	4.5	10.9	(D)	0.2	2.7
26	Paper and allied products -----	-	55	37	9.1	162.3	7.2	14.3	124.5	542.6	627.1	1 166.1	91.2	8.6	298.3
2621	Paper mills, except building paper -----	-	7	7	3.8	75.7	3.0	5.9	57.6	270.0	262.5	530.6	26.1	FF	(D)
2631	Paperboard mills -----	-	7	6	2.0	40.3	1.7	3.3	32.3	130.3	179.2	310.5	55.7	1.8	93.2
264	Miscellaneous converted paper products -----	-	26	14	2.4	33.6	1.9	3.7	25.5	112.3	144.9	254.3	7.3	EE	(D)
2641	Paper coating and glazing -----	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2642	Envelopes -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2643	Bags, except textile bags -----	-	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	10.3
2647	Sanitary paper products -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2648	Stationery products -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2649	Converted paper products, n.e.c. -----	-	7	4	0.3	4.0	0.2	0.5	2.7	10.9	12.1	23.0	1.9	(NA)	(NA)
265	Paperboard containers and boxes -----	-	11	7	0.5	7.5	0.3	0.7	4.8	17.4	27.6	45.1	1.6	CC	(D)
2653	Corrugated and solid fiber boxes -----	-	4	4	0.3	5.1	0.2	0.4	3.1	12.0	19.9	31.9	1.4	BB	(D)
2661	Building paper and board mills -	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
27	Printing and publishing -----	E1	544	79	7.9	96.6	4.4	7.7	51.2	213.6	116.1	328.5	11.6	6.7	120.2
2711	Newspapers -----	-	117	28	3.8	43.9	1.4	2.4	16.3	100.1	39.5	139.6	5.6	3.6	62.4
2741	Miscellaneous publishing -----	E2	18	3	0.2	1.4	(Z)	0.1	0.3	2.8	1.1	3.9	0.2	(NA)	(NA)
275	Commercial printing -----	E1	314	30	2.4	31.5	1.8	3.1	20.9	60.2	42.3	102.1	3.2	EE	(D)
2751	Commercial printing, letterpress -----	E5	169	8	0.7	7.4	0.6	1.0	5.1	12.9	8.9	21.8	(D)	BB	(D)
2752	Commercial printing, lithographic -----	-	137	21	1.6	23.0	1.2	2.0	15.0	46.2	32.9	78.8	2.3	1.1	18.2
2761	Manifold business forms -----	E2	14	9	0.7	9.2	0.5	1.1	6.6	30.8	26.5	56.8	1.8	0.6	16.3
278	Blankbooks and bookbinding --	-	11	6	0.4	4.3	0.3	0.6	3.3	8.0	3.0	10.8	0.3	0.2	4.0
2782	Blankbooks and looseleaf binders -----	-	3	3	0.2	2.6	0.2	0.4	2.1	5.0	2.1	7.0	0.2	(NA)	(NA)
279	Printing trade services -----	E1	35	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2791	Typesetting -----	E1	26	2	0.3	3.4	0.2	0.4	2.6	5.7	1.1	6.8	0.4	BB	(D)
28	Chemicals and allied products -----	-	110	40	2.5	34.2	1.5	2.8	17.5	119.5	232.8	350.4	10.5	2.0	73.4
281	Industrial inorganic chemicals --	-	10	3	0.4	5.6	0.2	0.4	3.1	22.3	23.7	45.7	2.5	BB	(D)
2812	Alkalies and chlorine -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
282	Plastics materials and synthetics -----	-	8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2821	Plastics materials and resins --	-	8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
283	Drugs -----	E2	11	5	0.2	2.8	0.1	0.3	1.4	9.0	6.6	15.4	0.4	0.2	4.6
2834	Pharmaceutical preparations --	E2	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
284	Soaps, cleaners, and toilet goods -----	E2	16	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2851	Paints and allied products ---	E1	18	9	0.4	6.2	0.2	0.4	2.6	14.4	23.5	38.0	0.3	BB	(D)
286	Industrial organic chemicals ---	-	6	3	0.4	3.8	0.3	0.4	2.5	9.8	14.8	24.1	(D)	BB	(D)
2861	Gum and wood chemicals ---	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
287	Agricultural chemicals -----	-	10	5	0.3	3.1	0.2	0.3	1.8	10.0	22.1	31.9	(D)	(NA)	(NA)
289	Miscellaneous chemical products -----	-	31	8	0.5	7.7	0.3	0.6	3.5	33.7	86.7	121.7	2.3	0.6	26.8
2891	Adhesives and sealants -----	-	11	5	0.3	4.4	0.2	0.3	1.9	16.0	66.0	81.6	0.9	BB	(D)
29	Petroleum and coal products -----	-	29	14	0.8	11.7	0.6	1.1	7.6	29.5	101.1	128.9	(D)	CC	(D)
295	Paving and roofing materials ---	-	22	11	0.7	9.2	0.5	1.0	6.2	23.3	49.4	72.1	(D)	CC	(D)
2951	Paving mixtures and blocks ---	-	14	5	0.3	4.3	0.2	0.5	2.9	11.6	19.9	31.4	(D)	BB	(D)
2952	Asphalt felts and coatings ---	-	8	6	0.3	4.9	0.2	0.5	3.3	11.7	29.4	40.8	(D)	AA	(D)
30	Rubber and miscellaneous plastics products -----	E1	103	29	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	19.7
3069	Fabricated rubber products, n.e.c. -----	-	13	6	0.4	4.9	0.3	0.7	3.3	10.1	7.8	17.8	0.4	BB	(D)
3079	Miscellaneous plastics products -----	E1	84	21	1.6	16.6	1.3	2.4	11.1	45.7	44.8	89.0	3.3	0.9	13.2
31	Leather and leather products -----	E1	26	6	0.3	2.9	0.3	0.5	2.2	5.3	8.8	14.0	(D)	AA	(D)
32	Stone, clay, and glass products -----	E1	226	51	4.1	53.8	3.1	6.0	37.6	125.5	113.8	239.4	12.1	3.4	71.8
322	Glass and glassware, pressed or blown -----	-	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3221	Glass containers -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3241	Cement, hydraulic -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
327	Concrete, gypsum, and plaster products -----	E1	151	34	2.6	34.5	1.8	3.5	22.4	78.8	79.4	157.2	7.8	2.1	44.6
3272	Concrete products, n.e.c. ---	E2	59	9	0.8	10.1	0.7	1.2	6.8	21.6	17.2	38.1	1.6	CC	(D)
3273	Ready-mixed concrete -----	-	73	24	1.7	22.5	1.1	2.1	14.5	52.2	56.0	108.2	5.9	EE	(D)
329	Miscellaneous nonmetallic mineral products -----	E2	24	5	0.3	4.3	0.3	0.5	2.9	10.5	6.5	15.8	1.1	0.3	5.2
3295	Minerals, ground or treated --	E2	15	3	0.3	3.6	0.2	0.4	2.5	9.5	5.8	15.1	0.7	0.2	4.6

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972	
			All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expen- diture (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
33	Primary metal industries -----	-	72	33	9.0	149.8	8.8	12.5	103.6	351.8	333.7	671.5	58.0	FF	(D)
331	Blast furnace and basic steel products -----	-	9	6	1.5	26.3	1.2	2.1	18.9	48.3	95.9	126.7	(D)	EE	(D)
3312	Blast furnaces and steel mills -----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3313	Electrometallurgical products -----	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
332	Iron and steel foundries -----	-	18	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3321	Gray iron foundries -----	E1	9	7	0.4	5.9	0.4	0.7	4.7	9.7	6.1	15.8	1.1	0.3	3.4
3324	Steel investment foundries -----	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3325	Steel foundries, n.e.c. -----	-	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
333	Primary nonferrous metals -----	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3334	Primary aluminum -----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
335	Nonferrous rolling and drawing -----	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3356	Nonferrous rolling and drawing, n.e.c. -----	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
336	Nonferrous foundries -----	E2	22	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	12.6
3361	Aluminum foundries -----	E2	10	2	0.2	2.3	0.2	0.3	1.7	4.2	2.7	6.8	0.2	0.6	9.9
339	Miscellaneous primary metal products -----	-	11	1	0.2	2.3	0.1	0.2	1.5	8.8	7.0	16.7	(D)	0.2	2.7
34	Fabricated metal products -----	-	406	122	11.8	149.7	9.1	17.1	101.2	340.7	348.5	680.9	17.0	8.3	155.0
341	Metal cans and shipping containers -----	-	9	5	0.5	9.2	0.4	0.8	7.1	41.4	63.1	100.6	0.4	0.4	15.9
3411	Metal cans -----	-	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
342	Cutlery, hand tools, and hardware -----	-	36	15	3.0	34.9	2.5	4.3	25.0	84.4	47.1	130.9	5.2	2.3	43.5
3421	Cutlery -----	E1	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3423	Hand and edge tools, n.e.c. -----	-	7	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3425	Hand saws and saw blades -----	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	24.0
3429	Hardware, n.e.c. -----	-	20	8	1.5	14.6	1.3	2.2	11.5	30.6	27.4	58.5	2.4	CC	(D)
343	Plumbing and heating, except electric -----	E5	30	3	0.2	2.8	0.2	0.3	1.7	6.1	5.9	11.9	0.2	(NA)	(NA)
3433	Heating equipment, except electric -----	E4	25	3	0.2	2.4	0.2	0.3	1.4	5.3	5.2	10.5	0.2	(NA)	(NA)
344	Fabricated structural metal products -----	-	184	51	4.3	57.3	3.1	5.9	38.4	118.1	147.2	261.8	6.1	3.2	58.0
3441	Fabricated structural metal -----	-	45	15	1.0	15.5	0.8	1.5	10.7	28.2	31.7	59.6	2.2	0.7	12.3
3442	Metal doors, sash, and trim -----	-	30	12	1.1	10.9	0.8	1.6	7.0	29.9	40.7	69.5	1.0	0.7	8.4
3443	Fabricated plate work (boiler shops) -----	E1	28	10	0.9	13.4	0.7	1.4	9.3	25.4	27.2	52.0	1.2	0.5	11.2
3444	Sheet metal work -----	-	60	11	0.8	11.7	0.6	1.1	7.9	24.0	25.9	49.5	1.2	0.8	14.6
3449	Miscellaneous metal work -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
345	Screw machine products, bolts, etc. -----	E1	5	4	0.3	3.6	0.2	0.4	2.4	7.1	6.3	13.5	0.3	0.2	2.6
346	Metal forgings and stampings -----	-	19	7	0.5	6.8	0.4	0.7	4.8	12.4	13.3	25.5	0.8	0.3	5.2
3462	Iron and steel forgings -----	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3469	Metal stampings, n.e.c. -----	-	12	2	0.2	3.2	0.2	0.4	2.3	5.4	8.8	12.0	(D)	AA	(D)
347	Metal services, n.e.c. -----	E1	39	13	0.8	8.4	0.6	1.2	6.0	15.3	5.8	21.0	0.9	0.5	5.7
3471	Plating and polishing -----	E1	26	10	0.6	6.7	0.5	1.0	4.8	12.5	3.8	16.2	0.6	BB	(D)
3479	Metal coating and allied services -----	E2	13	3	0.2	1.8	0.1	0.2	1.3	2.8	2.0	4.8	0.2	(NA)	(NA)
348	Ordinance and accessories, n.e.c. -----	E1	5	3	0.2	2.3	0.2	0.3	1.3	5.3	2.4	8.5	0.1	0.2	1.8
3489	Ordinance and accessories, n.e.c. -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	79	21	2.1	24.5	1.6	3.0	16.5	50.7	57.4	107.2	3.0	EE	(D)
3494	Valves and pipe fittings -----	E1	7	4	0.4	5.0	0.3	0.6	3.6	9.0	7.1	16.2	0.1	(NA)	(NA)
3496	Miscellaneous fabricated wire products -----	-	17	4	0.3	3.2	0.2	0.4	2.2	8.5	10.6	19.0	0.4	0.2	4.2
3498	Fabricated pipe and fittings -----	-	8	3	0.5	6.5	0.3	0.6	3.9	13.9	15.8	29.1	(D)	BB	(D)
3499	Fabricated metal products, n.e.c. -----	E1	42	7	0.8	8.3	0.6	1.2	5.8	16.7	21.5	37.8	1.0	BB	(D)
35	Machinery, except electrical -----	-	560	130	14.4	215.5	9.4	16.8	117.1	482.8	355.4	816.6	38.2	10.1	185.3
352	Farm and garden machinery -----	E1	38	12	0.7	9.2	0.6	1.1	6.7	19.9	27.2	47.1	(D)	CC	(D)
3523	Farm machinery and equipment -----	E1	38	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
353	Construction and related machinery -----	-	86	24	3.7	58.9	2.4	4.3	34.2	124.6	117.5	232.0	7.3	3.7	70.4
3531	Construction machinery -----	E1	32	8	1.1	16.6	0.7	1.3	10.9	30.4	29.8	56.1	1.1	EE	(D)
3532	Mining machinery -----	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3535	Conveyors and conveying equipment -----	E1	9	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3537	Industrial trucks and tractors -----	-	15	8	1.7	28.3	1.1	1.8	14.4	64.3	56.5	115.7	5.1	1.8	32.5

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials³ (million dollars)	Value of ship- ments³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
35	Machinery, except electrical—Con.														
354	Metalworking machinery -----	E1	36	4	0.4	5.5	0.3	0.6	3.8	11.7	6.0	16.7	0.6	BB	(D)
355	Special industry machinery ----	-	87	35	2.3	34.8	1.5	2.9	19.6	70.4	61.8	130.6	2.8	EE	(D)
3551	Food products machinery ----	E3	15	4	0.3	4.0	0.2	0.4	2.3	8.2	4.8	12.8	0.3	AA	(D)
3553	Woodworking machinery ----	-	48	22	1.3	20.2	0.9	1.8	12.7	39.5	43.8	81.8	1.6	EE	(D)
3554	Paper industries machinery --	E1	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3559	Special industry machinery, n.e.c. -----	-	14	5	0.5	7.6	0.2	0.5	2.9	17.8	10.0	27.7	0.8	AA	(D)
356	General industrial machinery ---	-	48	12	2.3	35.5	1.7	2.5	19.5	69.3	47.8	117.0	(D)	2.0	29.8
3561	Pumps and pumping equipment -----	-	8	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3564	Blowers and fans -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3565	Industrial patterns -----	E1	14	3	0.2	2.6	0.1	0.3	2.1	3.9	0.9	4.7	0.1	(NA)	(NA)
3568	Power transmission equipment, n.e.c. -----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3569	General industrial machinery, n.e.c. -----	-	13	2	0.3	4.4	0.2	0.3	1.9	6.3	5.8	12.1	0.2	BB	(D)
357	Office and computing machines -----	-	10	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3573	Electronic computing equipment -----	-	7	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3574	Calculating and accounting machines -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
358	Refrigeration and service machinery -----	-	23	9	0.6	8.5	0.4	0.8	5.2	26.2	22.5	48.7	0.5	0.4	8.4
3585	Refrigeration and heating equipment -----	E2	9	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3589	Service industry machinery, n.e.c. -----	-	13	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
359	Miscellaneous machinery, except electrical -----	E2	250	31	2.3	30.9	1.8	3.4	21.0	54.7	26.5	80.0	(D)	EE	(D)
3599	Machinery, except electrical, n.e.c. -----	E2	249	31	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
36	Electric and electronic equipment -	-	149	46	4.7	54.5	3.2	6.4	30.0	144.8	102.3	243.7	(D)	3.5	54.3
361	Electric distributing equipment -	-	13	6	0.4	5.4	0.3	0.5	3.0	23.0	18.3	39.5	0.2	0.3	8.2
3612	Transformers -----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3613	Switchgear and switchboard apparatus -----	E1	10	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
364	Electric lighting and wiring equipment -----	-	11	4	0.3	2.0	0.2	0.4	1.6	4.9	3.8	8.2	(Z)	0.2	2.4
366	Communication equipment ----	-	22	7	1.2	13.1	0.8	1.5	6.1	47.6	21.8	68.3	1.2	1.1	15.1
3661	Telephone and telegraph apparatus -----	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3662	Radio and TV communication equipment --	-	18	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
367	Electronic components and accessories -----	E1	39	14	1.3	12.4	0.9	2.0	7.6	24.7	12.1	36.4	3.6	0.8	10.4
3674	Semiconductors and related devices -----	E1	4	2	0.3	2.5	0.2	0.5	2.0	5.7	3.4	8.7	3.1	(NA)	(NA)
3679	Electronic components, n.e.c. -----	E2	29	10	0.9	8.7	0.6	1.4	5.0	16.4	7.6	24.0	(D)	CC	(D)
369	Miscellaneous electrical equipment and supplies ----	-	30	11	1.3	17.9	0.9	1.7	9.8	36.2	39.3	75.7	(D)	0.6	10.7
3691	Storage batteries -----	-	9	4	0.4	6.4	0.4	0.7	4.7	15.1	20.9	35.7	(D)	0.4	7.6
3693	X-ray, electromedical, and electrotherapeutic apparatus -	-	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3699	Electrical equipment and supplies, n.e.c. -----	-	8	4	0.3	3.9	0.2	0.4	2.4	6.7	6.8	14.1	0.1	(NA)	(NA)
37	Transportation equipment -----	-	210	56	9.4	133.0	7.7	13.2	98.9	237.3	368.7	638.0	(D)	FF	(D)
371	Motor vehicles and equipment -	-	83	26	3.8	49.4	3.1	5.0	35.7	100.2	209.7	305.5	(D)	3.3	90.0
3711	Motor vehicles and car bodies -----	-	6	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3713	Truck and bus bodies -----	E3	16	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3714	Motor vehicle parts and accessories -----	-	47	11	1.7	22.6	1.4	2.3	16.4	44.1	70.3	113.3	(D)	1.2	27.9
3715	Truck trailers -----	E1	12	4	0.5	7.6	0.4	0.7	4.9	15.5	16.4	32.3	0.4	CC	(D)
3716	Motor homes produced on purchased chassis -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
372	Aircraft and parts -----	-	7	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3728	Aircraft equipment, n.e.c. ---	-	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
373	Ship and boat building and repairing -----	-	67	11	1.8	30.1	1.5	2.9	24.2	51.9	28.7	80.4	(D)	EE	(D)
3731	Ship building and repairing --	-	11	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3732	Boat building and repairing --	E2	56	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3743	Railroad equipment -----	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
379	Miscellaneous transportation equipment -----	-	40	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	25.3
3792	Travel trailers and campers --	-	30	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	23.2

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
38	Instruments and related products -----	-	81	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.9	180.6
382	Measuring and controlling devices -----	-	18	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3825	Instruments to measure electricity -----	-	5	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3832	Optical instruments and lenses -----	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
384	Medical instruments and supplies -----	-	37	9	0.9	11.5	0.6	1.1	6.6	28.6	12.5	38.9	1.0	CC	(D)
3841	Surgical and medical instruments -----	E1	11	7	0.3	3.6	0.2	0.4	2.2	8.6	4.0	12.4	0.4	AA	(D)
3843	Dental equipment and supplies -----	-	13	2	0.5	7.3	0.4	0.6	3.9	18.5	7.9	24.4	(D)	AA	(D)
3861	Photographic equipment and supplies -----	-	9	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
39	Miscellaneous manufacturing industries -----	E2	185	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	27.5
3931	Musical instruments -----	E2	10	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
394	Toys and sporting goods -----	-	40	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3944	Games, toys, and children's vehicles -----	-	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3949	Sporting and athletic goods, n.e.c. -----	-	31	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
399	Miscellaneous manufactures ---	E2	99	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	13.5
3991	Brooms and brushes -----	-	4	1	0.2	1.9	0.2	0.3	1.1	4.1	2.3	6.2	0.1	AA	(D)
3993	Signs and advertising displays -----	E2	45	5	0.4	4.3	0.2	0.5	2.4	7.4	5.2	12.5	0.3	0.5	8.1
3999	Manufacturing industries, n.e.c. -----	E5	47	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	3.5
-	Administrative and auxiliary -----	-	101	45	5.4	102.6	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Eugene-Springfield SMSA ---	-	610	177	20.4	283.7	16.6	32.7	215.0	661.5	997.4	1 652.5	78.2	19.5	413.7
24	Lumber and wood products --	-	300	99	12.9	187.8	11.4	23.1	158.6	446.2	697.0	1 138.0	(D)	14.1	297.6
2411	Logging camps and logging contractors ----	-	163	18	2.4	37.8	2.1	4.3	31.5	112.5	161.1	270.7	11.5	1.9	38.5
242	Sawmills and planing mills -	-	70	43	5.3	73.0	4.8	9.6	61.7	166.4	238.3	407.0	10.9	6.2	147.2
2421	Sawmills and planing mills, general ----	-	55	40	5.0	70.9	4.5	9.3	60.0	163.1	234.2	399.7	10.6	6.1	146.2
243	Millwork, plywood, and structural members ----	-	49	30	4.6	69.4	4.0	8.1	59.5	148.4	275.2	418.4	8.8	5.3	101.7
2436	Softwood veneer and plywood ----	-	25	22	2.9	45.6	2.6	5.5	40.2	101.3	186.3	285.5	4.6	3.3	66.3
2439	Structural wood members, n.e.c. ----	-	5	3	0.4	6.0	0.4	0.7	5.2	20.1	33.4	52.1	(D)	(NA)	(NA)
27	Printing and publishing ----	E1	58	10	0.8	10.7	0.4	0.7	4.7	23.1	9.0	32.1	(D)	0.7	9.9
28	Chemicals and allied products ----	-	13	6	0.5	5.2	0.3	0.6	3.0	18.4	64.8	82.7	(D)	0.3	14.3
34	Fabricated metal products ---	-	40	14	1.4	15.2	1.0	2.0	9.8	35.8	31.9	66.8	1.7	0.5	11.4
344	Fabricated structural metal products ----	E1	18	8	0.4	5.9	0.3	0.6	3.9	13.3	13.6	26.6	0.4	0.3	7.9
35	Machinery, except electrical -	E1	53	12	0.9	11.2	0.6	1.2	7.0	25.7	22.2	48.1	1.4	0.7	11.5
359	Miscellaneous machinery, except electrical ----	E2	28	4	0.3	3.4	0.2	0.4	2.1	6.7	2.8	9.4	(D)	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. ----	E2	28	4	0.3	3.4	0.2	0.4	2.1	6.7	2.8	9.4	(D)	(NA)	(NA)
37	Transportation equipment ---	E2	15	4	0.3	3.3	0.3	0.4	2.3	8.7	19.5	28.2	(D)	(NA)	(NA)
	Portland, Oreg.-Wash., SMSA ----	-	2 440	724	99.4	1 392.1	67.9	126.4	815.4	2 951.6	3 623.4	6 544.8	236.4	66.4	1 596.9
20	Food and kindred products --	-	151	78	8.4	117.2	5.7	10.7	69.7	347.4	719.8	1 067.6	28.4	9.3	237.7
201	Meat products ----	E1	22	12	1.4	19.8	1.1	2.2	14.3	41.8	187.9	229.2	2.3	1.4	28.1
2013	Sausages and other prepared meats ----	-	9	5	0.7	10.4	0.5	1.1	8.8	27.6	98.4	125.7	1.2	0.8	15.6
202	Dairy products ----	-	17	8	0.7	13.1	0.3	0.6	6.2	37.6	93.9	130.8	1.1	1.0	24.0
2026	Fluid milk ----	-	14	8	0.7	12.8	0.3	0.6	6.0	36.8	91.0	127.1	(D)	(NA)	(NA)
2037	Frozen fruits and vegetables ----	-	4	3	0.3	2.5	0.2	0.3	1.4	5.6	13.0	18.6	(D)	(NA)	(NA)
204	Grain mill products ----	-	13	10	0.6	9.1	0.4	0.7	5.4	30.8	86.5	118.1	0.9	0.8	22.4
2048	Prepared feeds, n.e.c. --	-	9	6	0.3	3.9	0.2	0.3	2.0	9.1	38.2	47.3	0.4	0.3	7.6
208	Beverages ----	-	14	10	0.9	16.4	0.4	0.8	7.4	59.3	69.1	127.7	8.3	1.1	44.8
2086	Bottled and canned soft drinks ----	-	7	6	0.4	6.8	0.1	0.2	1.8	16.1	12.3	28.4	(D)	0.5	11.5
209	Miscellaneous foods and kindred products ----	-	24	10	0.8	10.3	0.7	1.2	6.6	38.9	64.1	102.9	0.9	0.9	18.1
239	Miscellaneous fabricated textile products ----	E1	49	11	0.8	6.8	0.6	1.2	4.3	14.0	15.1	28.8	0.3	1.2	13.7
2391	Curtains and draperies --	E2	23	5	0.3	2.5	0.2	0.4	1.2	4.6	4.3	8.7	(Z)	0.3	1.6
24	Lumber and wood products --	-	360	95	9.5	122.6	8.2	15.6	98.1	327.3	410.2	728.0	24.2	9.3	156.7
2411	Logging camps and logging contractors ----	E2	131	10	1.3	17.9	1.2	2.0	14.4	28.6	44.4	71.4	3.2	1.4	15.4
242	Sawmills and planing mills -	-	78	34	3.2	42.8	2.8	5.4	35.3	169.9	179.1	344.5	13.6	3.8	70.8
2421	Sawmills and planing mills, general ----	-	56	31	2.8	40.3	2.5	4.9	33.1	165.0	174.3	334.9	13.4	3.5	69.0
2426	Hardwood dimension and flooring ----	-	5	3	0.3	1.6	0.2	0.4	1.4	2.8	3.1	5.9	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members ----	-	92	30	3.1	41.3	2.6	5.1	33.0	88.5	123.9	210.4	4.4	3.0	56.3
2431	Millwork ----	E1	32	9	1.1	14.2	0.9	1.7	10.8	30.0	46.4	76.4	0.7	(NA)	(NA)
2434	Wood kitchen cabinets --	-	32	8	0.7	6.6	0.6	1.0	5.5	13.1	11.0	23.9	1.7	0.3	4.9
2435	Hardwood veneer and plywood ----	-	6	3	0.3	3.6	0.2	0.3	2.0	5.5	22.2	28.0	0.2	0.3	8.5
2436	Softwood veneer and plywood ----	-	5	3	0.6	11.4	0.6	1.4	10.9	26.9	29.7	54.7	1.4	(NA)	(NA)
2439	Structural wood members, n.e.c. ----	-	17	7	0.4	5.6	0.3	0.7	3.8	13.1	14.6	27.3	0.3	0.3	4.1
244	Wood containers ----	E3	13	4	0.3	2.3	0.3	0.5	2.0	3.7	6.5	10.1	0.2	(NA)	(NA)
245	Wood buildings and mobile homes ----	E1	9	4	0.4	5.0	0.4	0.8	3.5	10.0	15.1	25.0	0.4	(NA)	(NA)
2451	Mobile homes ----	E1	4	3	0.3	3.9	0.3	0.6	2.8	7.5	13.9	21.4	(D)	(NA)	(NA)
249	Miscellaneous wood products ----	E1	37	13	1.1	13.3	1.0	1.9	9.8	26.6	41.2	66.6	2.3	0.8	11.2
2491	Wood preserving ----	E1	7	5	0.3	4.6	0.3	0.5	3.5	8.3	24.6	32.8	0.6	(NA)	(NA)
2499	Wood products, n.e.c. ---	E1	30	8	0.8	8.7	0.7	1.3	6.3	18.3	16.6	33.8	1.7	(NA)	(NA)
25	Furniture and fixtures ----	-	82	24	2.3	24.3	1.9	3.5	17.4	47.1	41.6	89.7	1.1	2.1	30.0
251	Household furniture ----	E1	44	13	1.5	14.8	1.3	2.4	10.9	27.9	26.5	54.8	0.7	1.7	24.5
2511	Wood household furniture ----	E1	23	4	0.7	6.1	0.6	1.1	4.7	11.1	8.0	19.4	0.4	1.1	14.7
2512	Upholstered household furniture ----	E1	14	6	0.7	7.1	0.6	1.1	5.3	11.4	12.8	24.4	(D)	0.5	6.3
254	Partitions and fixtures ----	-	21	6	0.5	5.2	0.4	0.7	3.8	10.2	9.1	20.2	0.3	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
	Portland, Oreg.-Wash., SMSA—Con.														
26	Paper and allied products ---	-	41	25	6.5	112.4	5.1	10.3	84.1	273.2	432.1	706.0	24.5	6.7	155.4
2621	Paper mills, except building paper -----	-	4	4	3.4	66.1	2.6	5.2	48.1	171.1	208.1	380.9	17.0	3.5	97.1
264	Miscellaneous converted paper products -----	-	23	12	2.5	37.7	2.1	4.3	30.0	81.9	185.2	286.3	5.5	2.4	41.9
265	Paperboard containers and boxes -----	-	12	8	0.5	8.2	0.4	0.8	5.5	19.0	38.0	56.9	(D)	0.7	14.8
2711	Newspapers -----	-	30	10	2.0	25.9	0.7	1.2	9.2	60.0	31.5	91.6	2.1	1.7	35.8
275	Commercial printing -----	E1	199	24	1.8	24.6	1.3	2.3	16.5	44.9	33.5	78.0	2.5	1.3	22.2
2751	Commercial printing, letterpress -----	E4	100	7	0.5	5.1	0.4	0.7	3.5	8.6	5.0	14.6	(D)	0.3	4.7
2752	Commercial printing, lithographic -----	-	93	16	1.2	18.5	0.9	1.6	12.3	35.4	27.1	62.2	(D)	0.9	16.2
2761	Manifold business forms -----	E4	9	6	0.3	4.9	0.2	0.5	3.2	12.8	16.8	29.2	0.7	0.3	4.1
278	Blankbooks and bookbinding -----	-	9	6	0.4	4.2	0.3	0.6	3.3	7.9	2.9	10.7	0.3	(NA)	(NA)
28	Chemicals and allied products -----	-	83	29	1.8	25.4	1.0	1.9	12.0	94.9	118.4	212.8	8.3	1.5	48.9
281	Industrial inorganic chemicals -----	-	9	5	0.5	7.5	0.3	0.5	4.1	32.1	27.5	59.6	2.3	0.4	14.9
2851	Paints and allied products -----	E2	15	5	0.3	3.9	0.1	0.2	1.6	9.4	13.1	22.4	0.2	0.3	4.8
289	Miscellaneous chemical products -----	-	25	5	0.3	5.3	0.2	0.4	2.3	26.2	36.4	62.3	3.1	0.3	15.0
29	Petroleum and coal products -----	-	16	9	0.5	7.7	0.3	0.7	5.0	19.8	82.7	100.8	2.0	0.4	15.3
295	Paving and roofing materials -----	-	10	6	0.4	5.3	0.2	0.5	3.5	13.5	31.0	44.0	1.6	(NA)	(NA)
2952	Asphalt felts and coatings -----	-	7	5	0.3	4.5	0.2	0.5	3.0	10.5	27.5	37.7	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	73	27	1.9	20.9	1.5	2.9	13.5	48.3	47.1	94.5	3.0	1.2	18.2
3069	Fabricated rubber products, n.e.c. -----	-	7	5	0.4	4.3	0.3	0.5	2.8	9.0	6.7	15.6	0.3	(NA)	(NA)
3079	Miscellaneous plastics products -----	-	62	20	1.5	15.6	1.2	2.2	9.9	37.1	36.8	73.0	2.5	0.9	12.2
32	Stone, clay, and glass products -----	-	95	25	2.2	28.9	1.6	3.0	20.8	71.8	60.1	132.6	5.8	2.0	45.2
327	Concrete, gypsum, and plaster products -----	-	59	16	1.1	16.1	0.7	1.3	9.7	36.7	35.2	72.3	3.1	1.1	24.5
3272	Concrete products, n.e.c. -----	-	27	5	0.4	4.8	0.3	0.6	3.3	9.7	8.3	17.5	0.8	(NA)	(NA)
3273	Ready-mixed concrete --	-	27	11	0.7	10.4	0.4	0.7	6.0	25.3	25.3	50.7	2.1	0.6	13.6
33	Primary metal industries -----	-	54	25	6.5	105.5	4.9	9.2	74.7	299.7	376.5	671.6	37.2	5.8	116.5
332	Iron and steel foundries -----	-	16	13	3.3	48.5	2.3	4.4	32.1	110.9	41.4	152.6	9.6	2.4	41.5
336	Nonferrous foundries -----	E2	18	3	0.3	3.7	0.2	0.5	2.8	6.8	4.6	11.3	0.4	(NA)	(NA)
34	Fabricated metal products ---	-	273	87	9.0	118.5	7.0	13.1	81.9	264.7	265.8	523.8	12.6	5.8	130.2
341	Metal cans and shipping containers -----	-	5	5	0.5	8.4	0.4	0.8	6.4	33.8	52.0	82.6	0.3	0.4	18.0
3429	Hardware, n.e.c. -----	-	18	5	1.4	12.8	1.2	2.1	10.7	26.6	26.2	53.5	(D)	0.8	14.3
344	Fabricated structural metal products -----	-	115	35	3.0	43.5	2.2	4.2	27.8	84.5	98.0	180.1	4.8	2.3	40.4
3441	Fabricated structural metal -----	-	30	11	0.9	13.8	0.7	1.3	10.0	25.4	24.2	49.0	2.0	0.5	7.6
3442	Metal doors, sash, and trim -----	-	22	8	0.7	7.6	0.5	1.1	4.6	18.1	24.9	42.6	0.4	0.4	4.3
3443	Fabricated plate work (boiler shops) -----	-	16	8	0.7	10.6	0.6	1.1	7.4	20.4	22.8	42.1	1.1	0.3	5.9
3444	Sheet metal work -----	-	36	7	0.5	7.5	0.4	0.6	4.9	15.0	18.5	33.4	1.1	0.8	13.4
345	Screw machine products, bolts, etc. -----	E1	4	4	0.3	3.6	0.2	0.3	2.4	7.1	6.2	13.5	0.3	(NA)	(NA)
346	Metal forgings and stampings -----	-	16	6	0.4	6.2	0.3	0.6	4.3	11.4	11.8	23.1	0.8	0.3	5.0
347	Metal services, n.e.c. -----	-	35	10	0.7	7.9	0.6	1.1	5.8	14.6	5.0	19.6	0.8	0.4	4.7
3471	Plating and polishing ---	-	23	8	0.5	6.3	0.5	0.9	4.7	11.9	3.1	14.9	0.7	0.3	3.6
349	Miscellaneous fabricated metal products -----	-	56	16	1.2	15.9	0.9	1.7	10.9	32.4	45.8	77.6	1.5	0.9	16.7
3496	Miscellaneous fabricated wire products -----	-	15	4	0.3	3.2	0.2	0.4	2.2	8.8	11.8	20.5	0.4	(NA)	(NA)
3499	Fabricated metal products, n.e.c. -----	-	22	4	0.4	5.3	0.3	0.6	3.8	10.7	17.1	27.6	0.4	(NA)	(NA)
35	Machinery, except electrical -	-	326	89	11.4	175.3	7.1	12.8	93.0	396.3	282.6	659.0	34.3	7.8	147.7
352	Farm and garden machinery -----	-	14	5	0.3	4.4	0.3	0.5	3.4	8.5	14.5	23.1	(D)	(NA)	(NA)
354	Metalworking machinery ---	E1	25	3	0.3	4.3	0.3	0.5	3.2	9.5	4.1	12.7	0.6	0.3	5.0
355	Special industry machinery -----	-	62	27	2.3	37.3	1.5	2.8	20.8	67.4	84.8	129.4	2.7	1.6	37.1
3553	Woodworking machinery -----	-	34	15	0.9	15.1	0.6	1.2	9.4	31.0	33.6	62.5	1.4	0.7	17.3
3554	Paper industries machinery -----	-	8	4	0.3	4.2	0.2	0.3	2.2	7.0	4.0	11.1	0.1	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Portland, Oreg.-Wash., SMSA—Con.														
35	Machinery, except electrical —Con.														
356	General industrial machinery -----	-	39	11	2.2	33.6	1.5	2.2	18.0	66.0	45.2	111.0	1.9	1.8	27.7
3569	General industrial machinery, n.e.c. -----	-	10	2	0.3	4.6	0.2	0.3	2.0	6.4	6.2	12.6	0.2	(NA)	(NA)
358	Refrigeration and service machinery -----	E1	16	7	0.4	5.3	0.3	0.5	3.5	16.4	13.2	29.7	0.3	0.3	6.4
359	Miscellaneous machinery, except electrical -----	E2	123	18	1.2	16.5	0.9	1.7	11.3	29.1	12.2	40.9	1.5	0.9	14.1
36	Electric and electronic equipment -----	-	109	31	3.5	40.2	2.4	4.9	22.7	98.3	84.6	179.7	6.6	3.3	53.6
361	Electric distributing equipment -----	-	11	5	0.3	4.6	0.2	0.4	2.6	20.2	15.1	33.9	0.2	0.3	6.8
366	Communication equipment -----	-	14	2	0.6	6.7	0.4	0.8	3.1	20.0	13.3	31.2	0.3	1.5	23.0
367	Electronic components and accessories -----	E1	27	9	1.0	9.9	0.7	1.7	6.1	19.1	9.6	28.4	(D)	0.7	9.5
369	Miscellaneous electrical equipment and supplies --	-	22	9	1.1	14.4	0.7	1.3	7.9	27.2	35.4	63.4	2.2	0.3	7.0
3691	Storage batteries -----	-	7	3	0.4	5.2	0.3	0.5	3.7	11.2	17.7	29.3	(D)	0.3	6.4
3699	Electrical equipment and supplies, n.e.c. ----	-	8	4	0.3	3.9	0.2	0.4	2.4	6.7	6.8	14.1	0.1	(NA)	(NA)
37	Transportation equipment ---	-	120	33	7.8	112.7	6.4	10.6	84.6	193.2	285.4	511.2	14.4	6.1	139.7
371	Motor vehicles and equipment -----	-	54	21	3.4	44.7	2.8	4.5	32.5	88.3	177.7	261.7	4.6	3.1	88.3
379	Miscellaneous transportation equipment -	-	19	3	0.3	2.3	0.2	0.4	1.6	3.6	6.4	9.7	0.2	(NA)	(NA)
384	Medical instruments and supplies -----	E1	27	8	0.4	5.1	0.3	0.6	3.3	12.3	6.2	17.7	0.5	(NA)	(NA)
3841	Surgical and medical instruments -----	E1	11	7	0.3	3.6	0.2	0.4	2.2	8.6	4.0	12.4	0.4	(NA)	(NA)
394	Toys and sporting goods --	E1	24	4	0.3	2.8	0.2	0.4	2.0	7.5	7.2	14.7	0.5	0.4	4.6
-	Administrative and auxiliary --	-	67	35	4.7	89.4	-	-	-	-	-	-	-	(NA)	(NA)
	Salem SMSA -----	-	419	120	15.3	177.7	12.7	21.7	130.7	427.4	586.9	1 001.7	31.8	12.1	222.1
20	Food and kindred products --	-	48	22	5.3	46.4	4.7	7.0	36.4	123.9	155.3	272.8	7.1	4.8	72.8
203	Preserved fruits and vegetables -----	-	21	14	4.7	39.1	4.3	6.3	32.3	106.7	112.1	211.2	4.5	4.3	63.6
2037	Frozen fruits and vegetables -----	-	9	6	2.4	22.5	2.2	3.6	18.5	75.4	65.0	133.1	(D)	2.3	25.7
24	Lumber and wood products--	-	134	41	4.8	59.7	4.2	7.9	49.6	143.6	246.1	388.8	(D)	2.9	68.4
2411	Logging camps and logging contractors ----	-	68	6	1.1	13.6	0.9	1.7	11.3	42.5	59.8	101.9	4.6	(NA)	(NA)
242	Sawmills and planing mills -	-	28	12	1.2	16.0	1.0	2.0	13.8	39.8	72.0	111.8	(D)	1.1	29.3
243	Millwork, plywood, and structural members-----	-	26	15	1.3	17.8	1.2	2.3	15.8	36.6	68.4	104.7	2.1	1.0	25.0
2434	Wood kitchen cabinets --	-	13	3	0.3	2.6	0.2	0.4	2.1	6.4	7.8	14.0	(D)	(NA)	(NA)
27	Printing and publishing ----	-	32	3	0.7	8.2	0.4	0.7	4.1	24.9	9.0	33.9	(D)	0.7	17.3
34	Fabricated metal products ---	-	39	13	1.0	12.3	0.8	1.4	8.1	36.9	55.3	89.7	2.1	0.7	10.8
344	Fabricated structural metal products -----	-	28	10	0.8	9.3	0.6	1.1	6.2	23.1	37.2	58.3	1.2	(NA)	(NA)
35	Machinery, except electrical -	E1	45	9	1.1	18.2	0.7	1.3	9.5	30.0	34.3	62.8	1.0	1.2	21.1

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
 (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
² Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	E1	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Baker County -----	-	38	8	0.6	9.0	0.5	1.1	7.2	16.2	25.9	42.0	2.6	0.8	14.7
	Benton County -----	-	142	40	2.8	35.2	2.2	4.4	25.5	79.0	125.5	203.2	12.8	2.7	44.3
24	Lumber and wood products --	-	78	23	1.6	20.4	1.4	2.8	17.5	46.7	93.4	139.4	10.3	1.7	30.0
242	Sawmills and planing mills -	-	20	13	0.7	8.2	0.7	1.4	7.0	16.5	46.0	62.6	5.3	0.7	12.1
	Clackamas County -----	-	429	98	12.8	185.7	8.9	16.6	111.6	444.4	445.0	900.1	49.4	12.1	240.8
24	Lumber and wood products --	-	120	24	2.4	33.8	2.0	3.9	27.0	76.9	116.6	191.8	7.8	2.2	36.9
2411	Logging camps and logging contractors ----	E1	66	5	0.5	8.2	0.4	0.7	5.7	9.9	20.7	30.4	1.9	(NA)	(NA)
242	Sawmills and planing mills -	-	26	11	1.3	19.9	1.2	2.4	17.2	55.2	82.4	136.8	5.3	1.1	23.1
2421	Sawmills and planing mills, general -----	-	18	11	1.2	19.4	1.1	2.3	16.8	54.5	81.4	134.9	5.2	(NA)	(NA)
26	Paper and allied products ---	-	5	5	1.8	31.5	1.3	2.4	22.4	83.2	87.9	170.8	(D)	1.9	46.8
34	Fabricated metal products ---	-	49	9	1.7	24.4	1.3	2.3	16.4	64.3	39.8	103.5	2.7	(NA)	(NA)
35	Machinery, except electrical --	-	70	18	3.0	43.3	1.5	2.7	16.2	130.8	70.0	193.7	(D)	1.3	26.6
36	Electric and electronic equipment -----	-	13	4	0.6	8.0	0.4	0.7	3.8	15.6	19.7	35.3	(D)	(NA)	(NA)
	Clatsop County -----	-	91	21	2.5	32.8	2.1	3.6	24.4	39.1	112.7	150.7	6.3	2.6	41.0
20	Food and kindred products --	E1	19	10	1.2	9.3	1.1	1.7	8.0	16.4	49.9	66.3	3.0	1.2	13.7
209	Miscellaneous foods and kindred products -----	E1	12	9	1.1	8.2	1.0	1.6	7.2	14.3	45.0	59.3	(D)	1.2	11.3
24	Lumber and wood products --	-	44	5	0.9	17.0	0.8	1.6	14.4	15.8	57.6	72.4	3.1	1.0	22.6
	Columbia County -----	-	92	21	3.5	59.8	3.0	5.7	47.9	217.9	250.6	468.4	20.0	3.2	112.3
24	Lumber and wood products --	-	80	11	1.5	23.5	1.4	2.7	19.9	41.5	102.1	142.7	2.9	1.2	33.7
	Coos County -----	-	191	42	5.6	77.6	4.8	9.0	65.9	186.4	333.6	499.8	15.4	5.1	113.2
20	Food and kindred products --	-	15	7	0.5	3.0	0.4	0.6	2.3	7.5	20.3	27.8	(D)	(NA)	(NA)
24	Lumber and wood products --	-	125	29	4.6	66.1	4.1	7.7	58.0	138.5	293.5	431.9	11.1	4.2	99.8
2411	Logging camps and logging contractors ----	-	87	10	1.5	22.1	1.3	2.2	19.1	49.5	119.9	169.0	8.2	(NA)	(NA)
242	Sawmills and planing mills -	-	22	10	1.7	24.2	1.5	2.9	21.5	39.9	115.8	155.7	1.5	2.2	46.3
243	Millwork, plywood, and structural members -----	-	6	5	1.2	16.3	1.1	2.2	14.7	40.5	51.6	92.1	(D)	(NA)	(NA)
2436	Softwood veneer and plywood -----	-	6	5	1.2	16.3	1.1	2.2	14.7	40.5	51.6	92.1	(D)	(NA)	(NA)
	Crook County -----	-	37	12	1.7	21.5	1.5	2.6	19.6	52.7	71.7	124.7	1.8	1.5	37.9
24	Lumber and wood products --	-	32	12	1.7	21.4	1.5	2.6	18.5	52.5	70.9	123.8	1.8	1.9	37.8
242	Sawmills and planing mills -	-	10	7	0.8	11.5	0.7	1.3	9.7	25.0	36.4	63.9	1.1	0.7	22.5
2421	Sawmills and planing mills, general -----	-	10	7	0.8	11.5	0.7	1.3	9.7	25.0	36.4	63.9	1.1	(NA)	(NA)
243	Millwork, plywood, and structural members -----	-	4	3	0.8	8.2	0.7	1.3	7.4	24.0	30.9	52.7	-	1.1	13.1
2431	Millwork -----	-	4	3	0.8	8.2	0.7	1.3	7.4	24.0	30.9	52.7	-	(NA)	(NA)
	Curry County -----	-	64	11	1.3	18.6	1.2	2.4	15.6	40.7	59.4	95.3	4.0	1.7	25.4
24	Lumber and wood products --	-	43	9	1.1	17.5	1.1	2.2	15.7	38.0	54.4	87.6	3.8	1.5	24.7
	Deschutes County -----	-	125	27	3.2	38.9	2.7	5.1	30.2	70.1	127.0	196.1	9.3	2.8	50.4
24	Lumber and wood products --	-	56	15	2.3	30.9	2.0	3.9	24.8	54.2	106.3	160.2	8.0	2.1	41.3
243	Millwork, plywood, and structural members -----	-	9	5	0.8	7.9	0.7	1.2	6.2	12.5	38.2	51.0	(D)	1.1	17.6
	Douglas County -----	-	297	69	9.7	134.8	8.8	17.1	114.8	296.6	472.2	758.6	45.8	10.8	206.8
24	Lumber and wood products --	-	216	53	8.1	110.3	7.3	14.8	97.9	239.2	394.1	633.6	35.4	8.9	170.2
242	Sawmills and planing mills -	-	29	17	2.1	28.6	1.9	3.9	24.4	55.6	111.8	168.0	23.8	2.3	46.5
243	Millwork, plywood, and structural members -----	-	19	15	4.2	58.5	4.0	8.2	53.7	118.8	214.9	335.8	4.9	4.2	81.6
	Grant County -----	-	40	7	0.6	8.8	0.5	1.1	7.8	19.6	29.6	49.5	1.7	0.4	10.4
24	Lumber and wood products --	-	31	7	0.5	8.4	0.5	1.0	7.7	19.1	29.2	48.7	1.7	(NA)	(NA)
	Hood River County -----	-	43	12	1.4	16.9	1.2	2.3	13.4	36.4	49.0	88.4	1.5	1.1	23.4
24	Lumber and wood products --	-	26	6	0.6	10.1	0.5	1.1	8.3	23.5	35.1	58.5	0.9	0.6	16.1
	Jackson County -----	-	271	66	7.9	102.6	6.5	12.3	79.8	269.6	330.7	501.5	15.6	7.2	159.4
24	Lumber and wood products --	-	140	38	5.7	75.6	4.9	9.3	62.6	181.9	243.6	426.8	9.9	5.6	112.6
2411	Logging camps and logging contractors ----	E4	92	9	0.7	8.5	0.6	1.1	7.0	20.6	20.4	40.8	2.9	(NA)	(NA)
242	Sawmills and planing mills -	-	12	8	0.8	11.3	0.7	1.5	9.5	29.7	36.8	65.9	(D)	0.9	20.3
2421	Sawmills and planing mills, general -----	-	12	8	0.8	11.3	0.7	1.5	9.5	29.7	36.8	65.9	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members -----	-	23	16	3.6	48.9	3.2	5.9	41.7	113.6	169.8	285.4	3.4	3.4	74.6
2436	Softwood veneer and plywood -----	-	9	9	2.5	36.5	2.3	4.2	32.9	94.4	131.7	227.3	3.0	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Jefferson County -----	-	23	5	0.8	4.5	0.7	0.7	3.8	9.4	16.7	26.4	1.2	0.2	3.7
	Josephine County -----	-	128	31	3.4	43.2	2.9	5.7	35.7	110.6	146.6	257.5	5.3	2.3	46.3
24	Lumber and wood products --	-	73	24	2.5	34.0	2.3	4.6	30.9	77.4	126.0	202.8	4.1	1.7	37.7
242	Sawmills and planing mills -	-	16	9	0.8	9.7	0.8	1.4	8.3	26.5	48.2	75.9	1.3	0.7	15.4
2421	Sawmills and planing mills, general -----	-	16	9	0.8	9.7	0.8	1.4	8.3	26.5	48.2	75.9	1.3	(NA)	(NA)
243	Millwork, plywood, and structural members -----	-	13	7	1.3	20.2	1.3	2.6	19.1	38.5	71.9	108.9	1.1	0.6	15.4
	Klamath County -----	-	108	41	4.8	68.1	4.0	7.9	55.7	150.5	240.8	389.3	17.7	4.5	84.0
24	Lumber and wood products --	-	66	30	4.2	61.4	3.7	7.4	52.9	139.3	225.2	362.7	16.9	4.0	77.0
242	Sawmills and planing mills -	-	11	9	1.9	29.2	1.7	3.5	24.9	62.2	106.3	168.6	5.3	2.5	46.0
2421	Sawmills and planing mills, general -----	-	11	9	1.9	29.2	1.7	3.5	24.9	62.2	106.3	168.6	5.3	(NA)	(NA)
243	Millwork, plywood, and structural members -----	-	11	10	1.1	14.9	1.0	1.9	13.1	32.9	51.8	83.2	1.5	0.7	13.3
	Lane County (Coextensive with Eugene-Springfield, Oreg., SMSA; see table 6.)														
	Lincoln County -----	-	84	17	2.0	27.8	1.7	3.0	22.8	73.8	123.9	197.2	23.0	1.6	39.7
24	Lumber and wood products --	E2	52	11	1.0	12.8	0.9	1.6	11.0	27.7	49.1	75.6	(D)	0.8	17.9
	Linn County -----	-	245	78	11.1	168.9	9.1	17.5	129.9	401.5	559.0	955.4	29.6	9.4	212.4
20	Food and kindred products --	-	15	6	1.0	9.9	0.9	1.6	8.1	23.7	35.5	58.7	1.0	0.9	11.2
203	Preserved fruits and vegetables -----	-	3	3	0.8	7.3	0.7	1.3	6.3	15.9	22.2	37.8	(D)	0.6	6.9
24	Lumber and wood products --	-	137	51	5.5	80.3	4.9	9.4	67.7	180.9	347.3	527.7	11.2	5.1	106.0
2411	Logging camps and logging contractors ----	E1	82	15	1.0	12.5	0.8	1.5	10.3	35.6	74.1	111.7	3.7	(NA)	(NA)
242	Sawmills and planing mills -	-	17	9	0.8	12.7	0.8	1.5	10.6	24.2	61.8	85.3	0.9	0.7	14.3
2421	Sawmills and planing mills, general -----	-	13	8	0.8	11.9	0.7	1.4	10.0	21.7	60.9	82.1	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members -----	-	27	18	2.8	42.7	2.5	4.9	36.9	91.8	175.8	266.0	4.0	2.4	61.3
2436	Softwood veneer and plywood -----	-	15	15	2.5	39.7	2.3	4.5	34.8	86.7	165.8	251.1	3.7	(NA)	(NA)
	Malheur County -----	-	32	5	1.8	18.4	1.5	2.8	13.6	36.5	62.8	92.7	1.1	1.3	29.2
20	Food and kindred products --	-	9	3	1.6	16.6	1.4	2.4	12.5	31.0	59.4	83.8	0.7	(NA)	(NA)
	Marion County -----	-	330	94	12.0	132.9	10.0	17.1	97.9	334.7	431.2	754.0	26.9	9.1	161.6
2037	Frozen fruits and vegetables -----	-	9	6	2.4	22.5	2.2	3.6	18.5	75.4	65.0	133.1	(D)	(NA)	(NA)
24	Lumber and wood products --	E1	84	25	3.1	34.7	2.7	5.1	27.8	80.4	136.8	216.7	10.3	1.5	31.4
2411	Logging camps and logging contractors ----	-	39	2	0.8	9.7	0.7	1.3	8.2	29.1	32.3	61.4	3.7	(NA)	(NA)
34	Fabricated metal products ---	-	33	13	1.0	12.2	0.7	1.4	8.0	36.6	55.0	89.2	2.0	(NA)	(NA)
	Multnomah County -----	-	1 372	422	51.3	718.0	34.5	63.2	420.5	1 515.1	1 862.8	3 382.4	109.1	46.5	815.8
20	Food and kindred products --	-	101	56	5.2	79.3	3.2	6.2	43.9	228.1	519.8	749.6	11.8	6.6	165.9
201	Meat products -----	E1	13	9	1.1	15.9	0.8	1.7	11.9	34.0	165.8	199.6	1.8	(NA)	(NA)
205	Bakery products -----	-	20	9	1.5	23.2	1.0	1.9	13.4	75.4	43.3	119.3	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	-	38	11	0.7	6.3	0.6	1.1	4.0	13.2	13.8	26.7	(D)	(NA)	(NA)
24	Lumber and wood products --	-	91	25	2.8	34.5	2.5	4.7	27.8	131.6	129.2	254.5	8.5	3.6	60.1
242	Sawmills and planing mills -	-	21	11	0.8	10.3	0.7	1.3	8.1	77.6	56.0	131.2	6.4	1.6	32.4
243	Millwork, plywood, and structural members -----	-	32	7	1.1	15.9	1.0	1.9	13.2	37.0	43.1	78.2	1.3	1.1	18.2
2431	Millwork -----	-	17	3	0.7	9.4	0.6	1.1	7.5	20.4	23.0	43.3	0.3	(NA)	(NA)
25	Furniture and fixtures -----	-	50	16	1.6	17.1	1.3	2.4	11.8	32.4	26.9	59.4	(D)	1.8	26.0
251	Household furniture -----	E1	21	8	1.0	9.8	0.9	1.6	7.0	19.0	17.0	36.4	(D)	(NA)	(NA)
2752	Commercial printing, lithographic -----	-	71	13	1.0	16.1	0.7	1.3	10.7	31.1	24.2	55.1	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	56	22	1.4	20.7	0.8	1.4	9.6	68.4	83.9	161.7	6.1	1.1	28.5
30	Rubber and miscellaneous plastics products -----	-	36	12	1.1	11.2	0.9	1.7	7.4	28.3	26.1	53.6	1.4	0.5	7.3
3079	Miscellaneous plastics products -----	-	28	6	0.7	6.4	0.6	1.1	4.1	18.1	16.3	33.7	0.9	(NA)	(NA)
32	Stone, clay, and glass products -----	-	46	11	1.3	17.7	1.0	1.8	13.1	42.1	28.7	71.7	3.1	1.3	32.9
327	Concrete, gypsum, and plaster products -----	-	21	5	0.6	8.0	0.3	0.7	5.2	17.2	15.9	32.9	1.3	0.8	16.1

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972	
		E ¹	All establishments	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)					
	Multnomah County—Con.													
34	Fabricated metal products ---	-	167	61	5.6	69.5	4.3	8.1	47.6	143.9	166.9	307.3	7.2	4.4
342	Cutlery, hand tools, and hardware -----	-	16	6	1.5	13.4	1.3	2.2	11.2	28.8	26.5	55.6	1.8	1.0
344	Fabricated structural metal products -----	-	53	22	1.8	24.5	1.2	2.4	14.1	45.2	63.0	107.6	2.3	1.6
347	Metal services, n.e.c. -----	-	27	9	0.5	6.3	0.5	0.9	4.5	12.0	4.4	16.4	0.7	(NA)
349	Miscellaneous fabricated metal products -----	E1	35	13	0.9	11.6	0.7	1.3	7.9	21.1	27.6	48.5	1.1	(NA)
35	Machinery, except electrical --	-	181	54	6.3	97.1	4.3	7.5	58.3	202.0	154.7	346.3	(D)	5.1
355	Special industry machinery --	-	33	13	0.8	11.7	0.5	1.0	7.6	21.3	25.4	45.2	(D)	0.6
359	Miscellaneous machinery, except electrical -----	E2	72	13	0.8	11.5	0.6	1.2	7.8	19.9	7.8	27.6	(D)	0.6
36	Electric and electronic equipment -----	-	53	12	1.8	18.3	1.2	2.6	10.7	43.0	31.0	72.6	1.0	1.4
367	Electronic components and accessories -----	-	12	4	0.7	6.3	0.4	1.0	3.3	11.6	4.7	16.4	(D)	(NA)
37	Transportation equipment ---	-	76	24	6.7	97.4	5.5	8.9	74.3	165.6	249.7	448.4	(D)	4.2
371	Motor vehicles and equipment -----	-	33	14	2.5	31.9	2.2	3.2	23.9	64.8	148.0	208.7	(D)	(NA)
3714	Motor vehicle parts and accessories -----	-	21	6	1.2	15.2	1.0	1.5	11.3	30.9	47.7	78.0	(D)	(NA)
-	Administrative and auxiliary --	-	44	24	3.7	70.9	-	-	-	-	-	-	-	(NA)
	Polk County-----	-	89	26	3.2	44.8	2.7	4.8	32.8	92.8	155.7	247.7	4.9	3.0
24	Lumber and wood products --	-	50	16	1.7	25.0	1.5	2.9	21.8	63.3	109.3	172.1	(D)	1.4
	Tillamook County -----	-	63	13	1.4	19.7	1.3	2.4	16.9	40.4	90.9	129.0	3.2	1.7
24	Lumber and wood products --	-	48	11	1.1	15.4	1.0	1.9	13.7	30.8	52.0	82.4	2.5	1.5
242	Sawmills and planing mills -	-	14	5	0.5	6.6	0.4	0.8	5.9	18.0	24.0	41.9	0.6	(NA)
	Umatilla County-----	-	87	25	3.7	38.7	3.1	6.2	30.3	81.7	146.9	227.9	6.4	2.9
20	Food and kindred products --	-	14	9	1.5	15.0	1.3	2.5	12.1	32.9	76.5	109.4	(D)	0.7
203	Preserved fruits and vegetables-----	-	8	5	1.3	12.4	1.2	2.2	10.4	28.0	43.6	71.6	(D)	0.6
24	Lumber and wood products --	E1	29	6	1.1	11.8	1.0	2.2	10.2	19.2	37.0	55.4	2.1	1.3
242	Sawmills and planing mills -	-	5	3	0.7	7.0	0.6	1.5	6.2	10.6	17.5	27.7	0.8	(NA)
	Union County -----	-	59	9	1.8	23.3	1.4	2.7	19.2	57.0	64.0	120.7	(D)	1.6
24	Lumber and wood products --	-	42	8	1.4	20.0	1.2	2.3	16.9	48.8	47.5	96.2	(D)	1.3
	Wasco County-----	-	21	7	1.1	16.3	0.8	1.6	12.6	44.8	64.8	113.6	4.4	1.1
	Washington County -----	-	381	135	23.1	309.3	15.0	28.4	153.8	533.0	598.4	1 105.5	44.8	16.4
20	Food and kindred products --	-	26	12	1.6	19.2	1.1	2.0	11.2	54.8	88.0	140.2	3.3	1.9
24	Lumber and wood products --	E1	67	26	2.1	23.9	1.7	3.3	18.2	51.5	80.7	131.2	4.8	1.6
242	Sawmills and planing mills -	-	12	7	0.6	7.1	0.5	1.0	5.9	14.5	27.7	41.5	0.9	0.5
243	Millwork, plywood, and structural members -----	E1	20	11	0.9	9.8	0.7	1.3	7.0	20.9	35.1	55.5	2.1	0.6
27	Printing and publishing -----	-	28	8	0.9	9.7	0.5	1.0	5.5	20.2	19.9	39.6	1.5	(NA)
34	Fabricated metal products ---	-	31	11	1.2	16.9	1.0	1.8	11.8	36.3	35.7	70.7	2.0	0.6
35	Machinery, except electrical --	E1	48	13	1.3	20.4	0.7	1.5	8.8	44.8	35.7	78.7	3.1	(NA)
355	Special industry machinery -	-	7	5	0.5	8.7	0.2	0.5	3.1	21.1	14.1	34.8	(D)	(NA)
36	Electric and electronic equipment -----	-	36	13	1.0	12.3	0.7	1.4	7.6	35.7	28.4	63.3	(D)	0.6
37	Transportation equipment ---	-	17	6	0.7	9.8	0.5	0.9	6.4	17.0	20.8	37.5	(D)	(NA)
371	Motor vehicles and equipment -----	-	12	6	0.7	9.3	0.5	0.9	6.2	16.6	20.2	36.7	(D)	(NA)
	Yamhill County -----	-	139	45	4.6	63.1	3.7	7.0	45.3	152.7	230.0	376.3	10.9	3.1
20	Food and kindred products --	-	18	9	0.6	7.2	0.5	1.0	5.3	20.4	51.9	71.5	0.9	0.5
24	Lumber and wood products --	-	55	17	1.7	24.1	1.5	3.0	20.0	56.6	101.3	156.2	3.5	1.3
243	Millwork, plywood, and structural members -----	-	6	3	0.5	7.2	0.5	0.9	6.5	15.7	28.7	43.8	1.5	(NA)
245	Wood buildings and mobile homes -----	-	5	4	0.6	9.1	0.5	1.1	6.7	21.7	38.5	60.0	0.2	(NA)

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
20 209	Astoria -----	-	45	11	1.4	17.8	1.2	2.0	12.5	24.3	50.4	74.7	3.0	1.4	22.5
	Food and kindred products --	E1	11	5	0.8	5.9	0.7	1.2	5.2	8.4	35.1	43.5	2.3	0.8	8.2
	Miscellaneous foods and kindred products -----	E1	8	5	0.8	5.6	0.7	1.1	5.0	7.7	33.9	41.6	(D)	(NA)	(NA)
	Baker -----	-	28	6	0.5	6.9	0.4	0.8	5.4	11.6	20.7	32.3	(D)	0.6	11.0
20	Beaverton -----	-	79	32	2.8	37.7	1.8	3.4	21.2	82.2	103.3	182.6	5.8	1.4	26.3
	Food and kindred products --	-	6	5	0.7	9.8	0.5	0.8	5.1	22.7	21.3	43.8	1.0	(NA)	(NA)
24	Bend -----	-	75	11	1.2	12.2	1.0	1.8	9.2	28.1	31.7	59.4	2.4	1.7	25.8
	Lumber and wood products --	-	31	5	0.6	7.9	0.5	1.1	6.2	19.3	24.6	44.1	(D)	1.0	19.0
	Corvallis -----	-	79	22	1.7	21.5	1.2	2.3	13.9	45.6	59.4	104.5	3.0	(D)	(D)
	Dallas -----	-	29	5	1.1	17.9	0.8	1.4	11.2	36.0	49.8	84.0	(D)	1.0	19.9
20 2436	Eugene -----	-	271	77	7.9	101.6	6.0	11.2	67.2	220.9	277.0	494.2	17.6	5.7	105.3
	Food and kindred products --	-	20	10	1.2	15.6	0.9	1.7	9.1	34.3	39.9	74.1	(D)	(NA)	(NA)
	Softwood veneer and plywood -----	-	9	8	1.1	15.5	1.0	2.0	13.6	30.5	69.2	98.6	(D)	(NA)	(NA)
	Printing and publishing -----	E1	38	8	0.7	9.2	0.4	0.6	3.9	20.2	7.4	27.5	(D)	(NA)	(NA)
35	Machinery, except electrical --	-	24	6	0.5	6.9	0.4	0.7	4.3	16.8	12.6	28.8	(D)	(NA)	(NA)
24	Forest Grove -----	-	32	12	1.2	13.1	1.0	1.9	9.5	25.1	45.0	69.1	2.6	(D)	(D)
	Lumber and wood products --	-	14	5	0.5	6.2	0.4	0.8	4.7	12.2	23.9	36.0	0.8	(NA)	(NA)
	Grants Pass -----	-	85	20	2.6	33.3	2.2	4.4	27.3	84.0	108.4	192.1	3.7	1.3	26.6
	Lumber and wood products --	-	47	13	1.8	24.7	1.7	3.3	22.7	52.0	89.4	140.2	2.6	0.8	21.1
24	Hillsboro -----	-	54	23	1.7	17.0	1.3	2.3	12.1	51.3	66.6	117.3	3.0	1.6	29.3
	Hood River -----	-	30	7	0.9	9.3	0.7	1.5	6.8	20.6	21.4	41.7	0.8	(NA)	(NA)
	Klamath Falls -----	-	72	23	3.3	48.0	2.8	5.4	36.9	112.2	178.5	289.0	14.7	3.2	61.9
	Lumber and wood products --	-	40	14	2.8	42.3	2.5	5.0	36.4	101.8	165.2	265.5	14.0	2.9	55.1
242 2421	Sawmills and planing mills -	-	4	4	1.2	19.5	1.1	2.3	16.6	45.8	76.4	122.0	(D)	(NA)	(NA)
243	Sawmills and planing mills, general -----	-	4	4	1.2	19.5	1.1	2.3	16.6	45.8	76.4	122.0	(D)	(NA)	(NA)
	Millwork, plywood, and structural members -----	-	5	4	0.6	8.1	0.5	1.0	7.2	18.7	27.8	45.4	(D)	(NA)	(NA)
	La Grande -----	-	30	6	1.0	14.3	0.8	1.5	10.9	31.2	41.3	71.9	2.1	0.7	18.7
	Lebanon -----	-	40	13	1.9	29.0	1.7	3.3	23.8	59.7	96.0	155.6	3.1	1.7	40.3
20	McMinnville -----	-	48	22	2.2	28.9	1.7	3.3	20.3	85.0	120.8	182.2	2.4	1.5	28.2
	Food and kindred products --	-	8	7	0.5	5.7	0.4	0.7	4.1	16.6	46.6	63.1	0.6	(NA)	(NA)
	Medford -----	-	101	25	3.3	43.8	2.6	5.0	32.8	113.4	121.6	235.8	7.1	3.1	87.9
	Lumber and wood products --	-	36	11	2.3	32.0	1.9	3.6	25.4	82.4	93.7	177.3	3.6	(NA)	(NA)
24 243	Millwork, plywood, and structural members -----	-	8	6	1.7	25.2	1.5	2.9	20.8	64.4	80.1	145.6	2.6	(NA)	(NA)
	Milwaukie -----	-	65	18	2.6	35.6	1.8	3.4	22.0	88.3	49.1	134.5	3.7	3.9	68.8
	Newberg -----	-	34	10	1.2	18.0	0.9	1.8	11.0	48.3	38.8	86.4	5.5	(NA)	(NA)
	Oregon City -----	-	28	6	1.0	17.5	0.7	1.2	10.3	50.3	44.8	94.9	(D)	1.0	27.4
	Pendleton -----	-	26	6	1.0	10.5	0.8	1.8	8.2	12.9	45.7	58.7	1.4	1.2	14.6
20 2026 209	Portland -----	-	1 137	345	42.7	598.9	27.5	50.1	329.3	1 223.6	1 465.9	2 700.2	(D)	40.8	737.5
	Food and kindred products --	-	87	50	4.8	73.2	3.0	5.7	41.3	209.1	399.6	608.5	11.3	6.0	157.2
	Fluid milk -----	-	8	7	0.6	10.9	0.3	0.5	4.6	30.2	68.6	98.4	0.7	(NA)	(NA)
	Miscellaneous foods and kindred products -----	-	18	8	0.5	5.1	0.4	0.6	3.2	15.2	26.8	42.0	0.7	(NA)	(NA)
24 2431	Lumber and wood products --	-	49	15	1.8	23.0	1.5	2.7	18.1	106.9	100.8	204.2	7.0	2.7	46.1
25 2511	Millwork -----	-	13	3	0.7	9.0	0.6	1.0	7.2	19.9	22.2	42.1	(D)	(NA)	(NA)
	Furniture and fixtures -----	-	43	13	1.4	14.8	1.1	2.1	10.3	29.0	23.9	53.0	(D)	1.7	23.9
27	Wood household furniture -----	-	9	3	0.6	5.3	0.5	0.9	4.0	9.6	7.0	16.8	0.3	(NA)	(NA)
	Printing and publishing -----	E1	216	35	3.2	45.9	1.9	3.4	25.1	95.9	53.6	149.0	4.2	3.0	59.9
28	Chemicals and allied products -----	-	53	20	1.3	19.6	0.7	1.3	9.2	69.4	94.0	162.5	5.9	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	30	11	1.0	10.7	0.8	1.6	7.0	26.6	24.2	50.3	1.3	0.6	8.5
3079	Miscellaneous plastics products -----	-	22	5	0.7	5.9	0.5	1.0	3.8	16.5	14.4	30.3	0.8	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
		E ¹													
	Portland—Con.														
32	Stone, clay, and glass products -----	-	36	8	0.7	9.4	0.5	0.8	6.0	20.8	17.0	37.5	1.8	0.7	14.5
327	Concrete, gypsum, and plaster products -----	-	17	4	0.5	7.2	0.3	0.6	4.5	15.9	14.0	29.7	1.3	(NA)	(NA)
33	Primary metal industries -----	-	24	11	3.4	49.7	2.4	4.6	32.8	114.1	58.5	172.5	3.6	2.6	47.5
332	Iron and steel foundries -----	-	7	6	2.9	43.4	2.0	3.8	28.0	101.5	35.9	137.7	2.6	(NA)	(NA)
34	Fabricated metal products ---	-	131	44	4.1	52.6	3.1	5.7	35.7	101.2	114.6	212.6	4.7	3.8	72.3
3429	Hardware, n.e.c. -----	-	7	3	1.0	8.5	0.9	1.3	7.1	14.2	17.8	32.3	0.3	(NA)	(NA)
347	Metal services, n.e.c. -----	-	25	8	0.5	5.5	0.4	0.8	3.9	10.6	4.1	14.6	0.7	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	26	9	0.7	9.9	0.5	1.1	6.8	18.6	24.2	42.5	0.9	(NA)	(NA)
35	Machinery, except electrical --	-	149	41	5.8	88.0	3.6	6.0	45.5	181.7	137.7	310.2	20.9	4.3	85.3
355	Special industry machinery --	-	27	11	0.7	9.8	0.4	0.8	6.1	19.5	15.2	33.4	1.1	(NA)	(NA)
3553	Woodworking machinery -----	-	19	8	0.5	7.8	0.3	0.6	5.0	15.9	12.0	26.5	0.9	(NA)	(NA)
36	Electric and electronic equipment -----	E1	44	8	1.4	14.6	1.0	2.2	8.4	35.8	26.3	60.8	0.8	0.9	14.5
367	Electronic components and accessories -----	-	9	2	0.5	4.0	0.3	0.8	2.2	7.7	3.1	10.6	0.1	(NA)	(NA)
37	Transportation equipment ---	-	55	16	4.8	70.7	4.0	6.5	55.2	105.6	225.9	364.9	(D)	3.6	57.3
-	Administrative and auxiliary --	-	41	23	3.7	70.9	-	-	-	-	-	-	-	(NA)	(NA)
	Redmond -----	-	25	5	0.5	7.2	0.4	0.8	5.6	12.9	29.2	42.1	1.1	(NA)	(NA)
	Roseburg -----	-	98	24	2.2	30.0	1.9	3.7	24.4	65.0	101.9	168.6	5.5	1.9	26.1
24	Lumber and wood products --	-	66	18	1.7	23.6	1.5	3.1	20.8	52.0	89.2	142.9	(D)	0.9	17.7
2411	Logging camps and logging contractors -----	-	51	9	0.5	6.8	0.4	0.8	5.6	21.7	23.8	45.2	1.9	(NA)	(NA)
	St. Helens -----	-	17	5	1.4	24.7	1.2	2.2	20.0	85.0	93.2	177.6	(D)	(NA)	(NA)
	Salem -----	-	150	47	6.2	89.1	5.0	8.0	49.6	153.2	209.7	362.3	11.5	5.7	106.6
20	Food and kindred products --	-	25	16	2.9	24.4	2.6	3.6	18.8	47.5	56.8	135.4	4.2	2.6	46.3
203	Preserved fruits and vegetables -----	-	13	9	2.5	18.5	2.3	3.1	15.7	35.2	55.0	90.0	2.4	(NA)	(NA)
2033	Canned fruits and vegetables -----	-	8	7	2.1	15.9	2.0	2.6	13.2	29.2	44.6	73.4	2.1	(NA)	(NA)
	Seaside -----	-	28	2	0.5	5.3	0.4	0.7	5.0	1.2	32.8	33.9	(D)	(NA)	(NA)
	Silverton -----	-	26	4	0.5	4.3	0.3	0.5	2.9	8.7	11.1	19.7	1.4	(NA)	(NA)
	Springfield -----	-	86	28	5.1	76.7	4.3	9.1	60.9	167.9	339.6	526.0	(D)	4.9	130.1
24	Lumber and wood products --	-	47	19	3.8	58.2	3.4	7.4	49.1	148.7	242.1	399.0	(D)	3.6	86.0
2421	Sawmills and planing mills, general -----	-	7	5	1.5	19.8	1.3	2.9	16.3	46.3	75.7	121.6	(D)	(NA)	(NA)
	Stayton -----	-	10	8	1.6	14.7	1.4	2.4	12.2	45.0	44.4	83.0	2.1	1.5	17.1
	Woodburn -----	-	23	10	1.8	18.1	1.5	2.7	13.0	51.2	68.2	118.5	3.0	(D)	(D)

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
OREGON	5716	413	-	23	116	2184	123	55	544	110	29	103	26	226	72	406	560	149	210	81	185	101
1 TO 4 EMPLOYEES	2624	138	-	8	53	1033	50	11	341	31	6	38	13	93	19	169	277	53	104	42	120	25
5 TO 9 EMPLOYEES	805	45	-	2	20	297	22	5	61	23	3	17	6	50	7	52	80	35	24	10	24	18
10 TO 19 EMPLOYEES	707	45	-	1	19	246	20	7	41	16	3	17	4	32	13	63	73	15	26	11	23	13
20 TO 49 EMPLOYEES	738	49	-	5	12	244	16	7	41	26	13	17	4	36	13	60	75	21	28	10	13	21
50 TO 99 EMPLOYEES	370	43	-	4	5	148	10	9	13	12	3	3	2	9	5	37	27	10	19	2	1	8
100 TO 249 EMPLOYEES	318	43	-	2	6	149	4	7	13	1	1	1	-	5	5	17	20	11	7	2	4	12
250 TO 499 EMPLOYEES	104	12	-	-	1	55	1	7	1	1	-	-	-	1	4	7	3	4	3	1	-	2
500 TO 999 EMPLOYEES	42	6	-	-	-	12	-	-	-	-	-	-	-	-	1	4	1	-	2	-	-	-
1000 TO 2499 EMPLOYEES	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2500 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BAKER COUNTY	38	3	-	-	-	23	-	-	2	-	1	-	-	4	-	-	3	-	1	-	1	-
1 TO 19 EMPLOYEES	30	3	-	-	-	18	-	-	2	-	-	-	-	3	-	-	2	-	1	-	1	-
20 TO 99 EMPLOYEES	6	-	-	-	-	4	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BENTON COUNTY	142	9	-	-	-	78	1	2	8	2	1	2	2	6	-	12	12	3	1	1	-	2
1 TO 19 EMPLOYEES	102	6	-	-	-	55	1	1	7	2	-	2	2	4	-	8	9	2	1	1	-	2
20 TO 99 EMPLOYEES	33	3	-	-	-	19	-	-	1	-	1	-	-	2	-	4	2	1	-	-	-	-
100 TO 249 EMPLOYEES	7	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLACKAMAS COUNTY	429	13	-	3	9	120	14	5	32	5	-	11	-	21	9	49	70	13	22	9	16	8
1 TO 19 EMPLOYEES	331	9	-	2	7	96	10	2	28	4	-	9	-	16	6	40	52	2	19	7	13	4
20 TO 99 EMPLOYEES	74	4	-	-	-	19	3	2	4	1	-	2	-	4	3	6	14	2	2	2	3	3
100 TO 249 EMPLOYEES	15	-	-	1	2	3	1	3	-	-	-	-	-	1	-	2	2	1	1	-	-	1
250 EMPLOYEES AND OVER	9	-	-	-	-	2	-	-	-	-	-	-	-	-	-	1	2	1	-	-	-	-
CLATSOP COUNTY	91	19	-	-	-	44	1	-	6	-	1	-	-	2	1	2	4	-	7	-	2	2
1 TO 19 EMPLOYEES	70	9	-	-	-	39	1	-	5	-	1	-	-	2	1	2	2	-	6	-	2	2
20 TO 99 EMPLOYEES	14	6	-	-	-	2	-	-	1	-	-	-	-	-	-	-	2	-	1	-	-	-
100 TO 249 EMPLOYEES	3	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COLUMBIA COUNTY	92	2	-	-	-	1	-	4	5	1	-	-	1	2	-	-	8	2	2	-	4	-
1 TO 19 EMPLOYEES	71	1	-	-	-	49	-	-	5	-	-	-	-	-	-	-	7	1	2	-	3	-
20 TO 99 EMPLOYEES	11	1	-	-	-	1	-	-	1	-	-	-	1	-	-	-	1	1	-	-	1	-
100 TO 249 EMPLOYEES	6	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COOS COUNTY	191	15	-	-	3	125	1	1	14	1	1	2	-	7	-	2	9	-	3	1	5	1
1 TO 19 EMPLOYEES	149	8	-	-	3	96	1	-	13	-	1	2	-	7	-	2	9	-	1	1	5	1
20 TO 99 EMPLOYEES	27	6	-	-	-	16	-	-	1	-	-	-	-	-	-	-	-	-	2	-	-	-
100 TO 249 EMPLOYEES	8	1	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CROOK COUNTY	37	2	-	-	-	32	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	25	2	-	-	-	20	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CURRY COUNTY	64	6	-	-	-	43	1	-	3	-	-	-	-	2	-	2	1	-	4	-	2	-
1 TO 19 EMPLOYEES	53	4	-	-	-	34	1	-	3	-	-	-	-	-	-	2	1	-	-	-	2	-
20 TO 99 EMPLOYEES	8	2	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DESCHUTES COUNTY	125	9	-	-	2	56	11	-	14	-	-	2	1	5	-	5	8	-	4	2	6	-
1 TO 19 EMPLOYEES	98	7	-	-	1	41	9	-	14	-	-	2	1	4	-	3	7	-	3	2	5	-
20 TO 99 EMPLOYEES	20	2	-	-	-	10	3	-	-	-	-	-	-	1	-	2	1	-	1	-	1	-
100 TO 249 EMPLOYEES	5	-	-	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOUGLAS COUNTY	297	14	-	-	1	216	1	1	15	-	-	-	-	11	1	5	22	2	2	-	5	1
1 TO 19 EMPLOYEES	228	11	-	-	1	163	1	-	13	-	-	-	-	8	-	3	18	2	2	-	5	1
20 TO 99 EMPLOYEES	43	3	-	-	-	31	-	-	-	-	-	-	-	3	-	2	4	-	-	-	-	-
100 TO 249 EMPLOYEES	15	-	-	-	-	9	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	11	-	-	-	-	9	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
GILLIAM COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and allied products; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
GRANT COUNTY	40	1	-	-	-	-	-	-	2	-	-	-	-	1	-	1	3	-	-	-	1
1 TO 19 EMPLOYEES	53	1	-	-	-	31	-	-	2	-	-	-	-	1	-	1	3	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HARNEY COUNTY	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HOOD RIVER COUNTY	43	3	-	-	-	-	-	-	3	-	-	-	-	3	-	1	2	-	-	-	1
1 TO 19 EMPLOYEES	51	1	-	-	-	-	-	-	2	-	-	-	-	2	-	1	2	-	-	-	-
20 TO 99 EMPLOYEES	6	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JACKSON COUNTY	271	18	-	-	-	3	140	4	20	5	-	2	1	12	-	17	19	6	7	5	3
1 TO 19 EMPLOYEES	205	11	-	-	-	3	102	2	17	3	-	2	1	12	-	13	16	4	5	4	8
20 TO 99 EMPLOYEES	43	6	-	-	-	-	20	2	2	2	-	-	-	-	-	3	2	2	2	2	1
100 TO 249 EMPLOYEES	16	1	-	-	-	-	11	-	1	-	-	-	-	-	-	1	1	-	-	1	1
250 EMPLOYEES AND OVER	7	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JEFFERSON COUNTY	23	2	-	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	18	1	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	1	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JOSEPHINE COUNTY	128	5	-	1	3	73	1	-	7	-	-	2	4	5	1	5	6	5	7	-	-
1 TO 19 EMPLOYEES	97	5	-	1	2	49	1	-	6	-	-	1	4	4	1	4	6	4	6	-	-
20 TO 99 EMPLOYEES	19	-	-	-	-	14	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-
100 TO 249 EMPLOYEES	10	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KLAMATH COUNTY	108	8	-	-	-	-	66	-	5	-	1	1	-	3	1	2	11	1	3	-	-
1 TO 19 EMPLOYEES	67	7	-	-	-	36	-	-	3	-	-	-	-	3	1	2	10	1	3	-	-
20 TO 99 EMPLOYEES	29	1	-	-	-	18	-	-	2	-	-	1	-	2	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES	8	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAKE COUNTY	26	1	-	-	-	22	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	20	1	-	-	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LANE COUNTY	610	30	-	3	7	300	10	1	58	13	2	11	2	18	5	40	53	9	15	7	21
1 TO 19 EMPLOYEES	433	17	-	3	7	201	9	-	48	7	-	9	2	13	2	26	41	7	11	7	5
20 TO 99 EMPLOYEES	120	8	-	-	-	61	1	-	9	5	-	2	-	4	3	11	9	2	3	20	2
100 TO 249 EMPLOYEES	139	4	-	-	-	25	-	-	1	1	-	-	-	1	-	2	3	1	1	-	-
250 EMPLOYEES AND OVER	18	1	-	-	-	13	-	-	1	1	-	-	-	-	-	1	-	-	-	-	-
LINCOLN COUNTY	84	7	-	-	2	52	-	-	3	2	-	-	-	5	-	1	2	-	4	-	-
1 TO 19 EMPLOYEES	67	3	-	-	2	41	-	-	2	-	-	-	-	5	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	14	4	-	-	-	9	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LINN COUNTY	245	15	-	1	4	137	3	6	15	4	1	4	2	7	6	12	17	2	1	-	-
1 TO 19 EMPLOYEES	167	9	-	-	-	86	2	2	14	3	1	4	2	4	1	11	14	1	1	-	-
20 TO 99 EMPLOYEES	44	2	-	-	-	33	1	-	1	1	-	-	-	1	1	1	2	1	-	-	-
100 TO 249 EMPLOYEES	26	3	-	-	-	16	-	-	1	-	-	-	-	2	2	-	1	-	-	-	-
250 EMPLOYEES AND OVER	8	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MALHEUR COUNTY	32	9	-	-	-	3	-	-	4	-	-	-	-	6	-	3	7	-	-	-	-
1 TO 19 EMPLOYEES	27	6	-	-	-	2	-	-	3	-	-	-	-	6	-	3	7	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARION COUNTY	330	43	-	2	7	84	6	7	31	4	4	10	-	19	4	33	37	4	13	2	16
1 TO 19 EMPLOYEES	236	24	-	-	5	59	1	1	28	2	2	9	-	13	3	20	31	1	8	2	16
20 TO 99 EMPLOYEES	65	9	-	-	1	16	1	1	1	2	2	1	-	5	1	10	5	2	5	-	-
100 TO 249 EMPLOYEES	18	3	-	-	-	7	-	-	1	-	-	-	-	1	-	3	1	-	-	-	-
250 EMPLOYEES AND OVER	11	7	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-

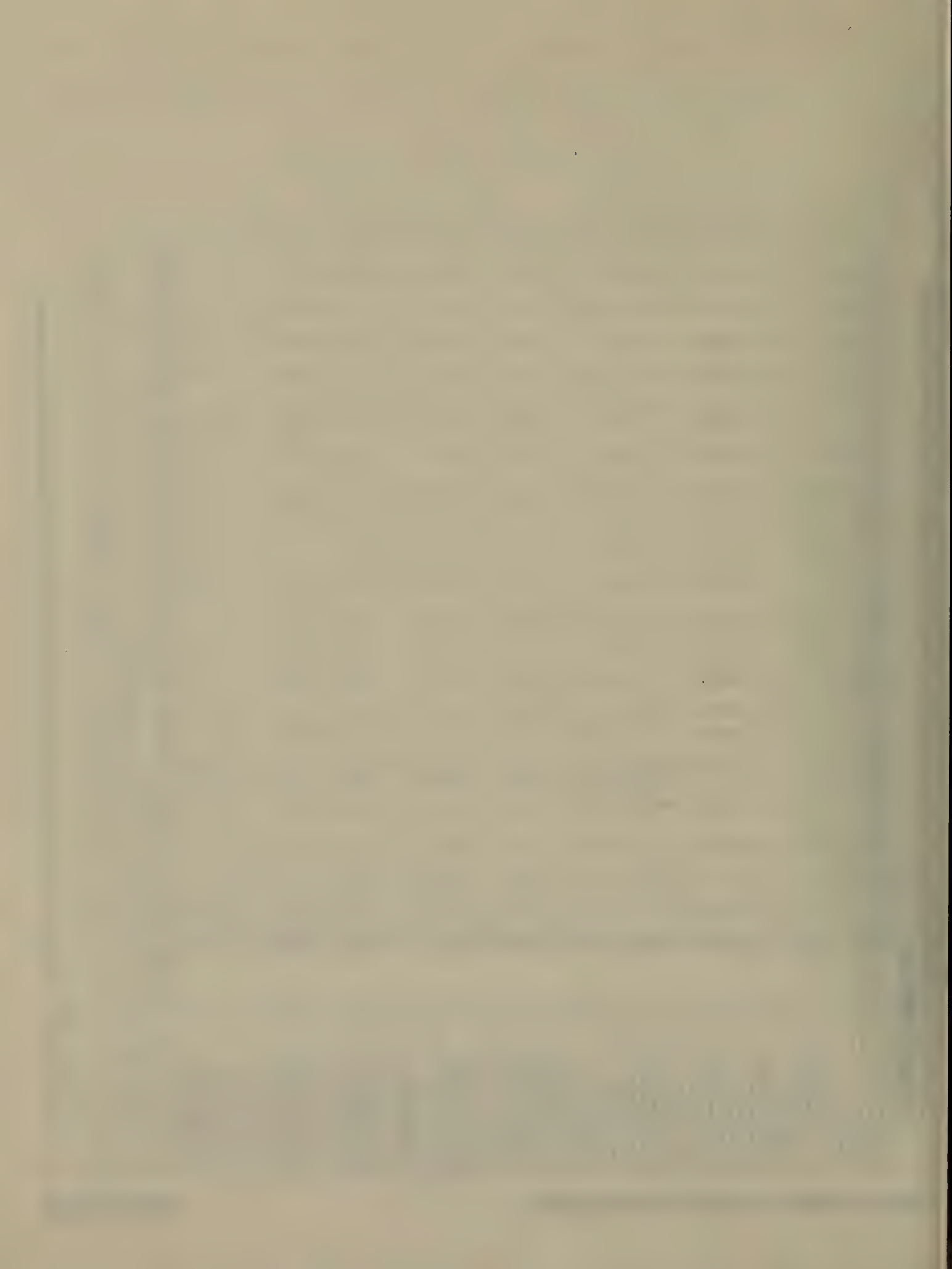
See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 -Con.

(Major group descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and allied products; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																			38	39	CAO's
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37				
MORROW COUNTY	7	3	-	-	-	2	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MULTNOMAH COUNTY	1372	101	-	12	57	91	50	23	238	58	15	36	8	46	29	167	181	53	76	24	63	44	
1 TO 19 EMPLOYEES	950	45	-	5	41	66	34	12	202	36	6	24	5	35	15	106	127	41	52	23	55	20	
20 TO 99 EMPLOYEES	325	41	-	6	13	19	13	10	33	21	9	29	3	7	6	50	43	6	15	1	7	13	
100 TO 249 EMPLOYEES	57	12	-	-	2	3	2	-	2	1	-	3	-	3	3	6	6	4	2	-	1	4	
250 EMPLOYEES AND OVER	40	3	-	1	1	3	1	1	1	-	-	-	-	1	5	5	5	2	7	-	-	-	
POLK COUNTY	89	5	-	-	2	50	4	4	1	1	1	-	1	3	2	6	8	2	-	-	-	2	
1 TO 19 EMPLOYEES	63	2	-	-	2	34	4	1	1	1	-	-	-	2	1	6	5	1	-	-	-	1	
20 TO 99 EMPLOYEES	18	1	-	-	-	11	-	-	-	-	-	-	-	1	1	-	2	1	-	-	-	1	
100 TO 249 EMPLOYEES	5	1	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	3	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
SHERMAN COUNTY	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
1 TO 19 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
TILLAMOOK COUNTY	63	8	-	-	-	48	1	-	3	-	-	-	-	1	-	1	1	-	-	-	-	-	
1 TO 19 EMPLOYEES	50	6	-	-	-	37	1	-	-	-	-	-	-	1	-	1	1	-	-	-	-	-	
20 TO 99 EMPLOYEES	8	1	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	5	1	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
UMATILLA COUNTY	87	14	-	1	-	29	1	1	9	-	-	2	1	8	-	4	4	3	6	-	1	3	
1 TO 19 EMPLOYEES	62	5	-	-	-	23	1	-	8	-	-	1	1	5	-	4	3	3	5	-	1	3	
20 TO 99 EMPLOYEES	14	5	-	-	-	3	1	-	1	-	-	1	-	3	-	-	-	-	1	-	-	-	
100 TO 249 EMPLOYEES	9	3	-	1	-	2	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	
250 EMPLOYEES AND OVER	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
UNION COUNTY	59	1	-	-	-	42	-	-	2	2	-	-	-	2	-	1	4	-	2	-	3	3	
1 TO 19 EMPLOYEES	50	1	-	-	-	34	-	-	-	-	-	-	-	2	-	1	4	-	1	-	3	-	
20 TO 99 EMPLOYEES	4	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	4	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WALLOWA COUNTY	26	-	-	-	-	23	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-	
1 TO 19 EMPLOYEES	23	-	-	-	-	20	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	
20 TO 99 EMPLOYEES	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WASCO COUNTY	21	2	-	-	-	11	-	-	4	-	-	-	-	1	1	-	1	-	-	-	1	1	
1 TO 19 EMPLOYEES	14	1	-	-	-	7	-	-	3	-	-	-	-	1	-	-	1	-	-	-	-	-	
20 TO 99 EMPLOYEES	5	1	-	-	-	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WASHINGTON COUNTY	381	26	-	-	9	67	10	3	28	10	1	16	2	15	10	31	46	36	17	28	15	11	
1 TO 19 EMPLOYEES	246	14	-	-	9	41	8	1	20	6	1	8	1	9	6	20	33	23	11	15	14	6	
20 TO 99 EMPLOYEES	93	4	-	-	-	19	1	-	3	4	-	8	1	6	3	8	10	10	4	19	-	3	
100 TO 249 EMPLOYEES	37	8	-	-	-	7	1	2	5	-	-	-	-	1	1	1	3	3	1	1	1	2	
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WHEELER COUNTY	7	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	5	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
YAMHILL COUNTY	139	18	-	-	3	55	1	1	6	2	2	1	1	9	2	4	14	8	10	2	1	-	
1 TO 19 EMPLOYEES	94	9	-	-	2	38	1	-	5	2	-	1	1	9	1	4	11	3	6	1	1	-	
20 TO 99 EMPLOYEES	35	8	-	-	1	13	-	-	1	-	-	1	-	-	-	-	2	4	4	-	-	-	
100 TO 249 EMPLOYEES	5	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	
250 EMPLOYEES AND OVER	5	-	-	-	-	2	-	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).
- Represents zero.
¹Only those counties and size classes that include data for manufacturing establishments are shown.



Pennsylvania

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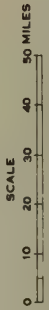
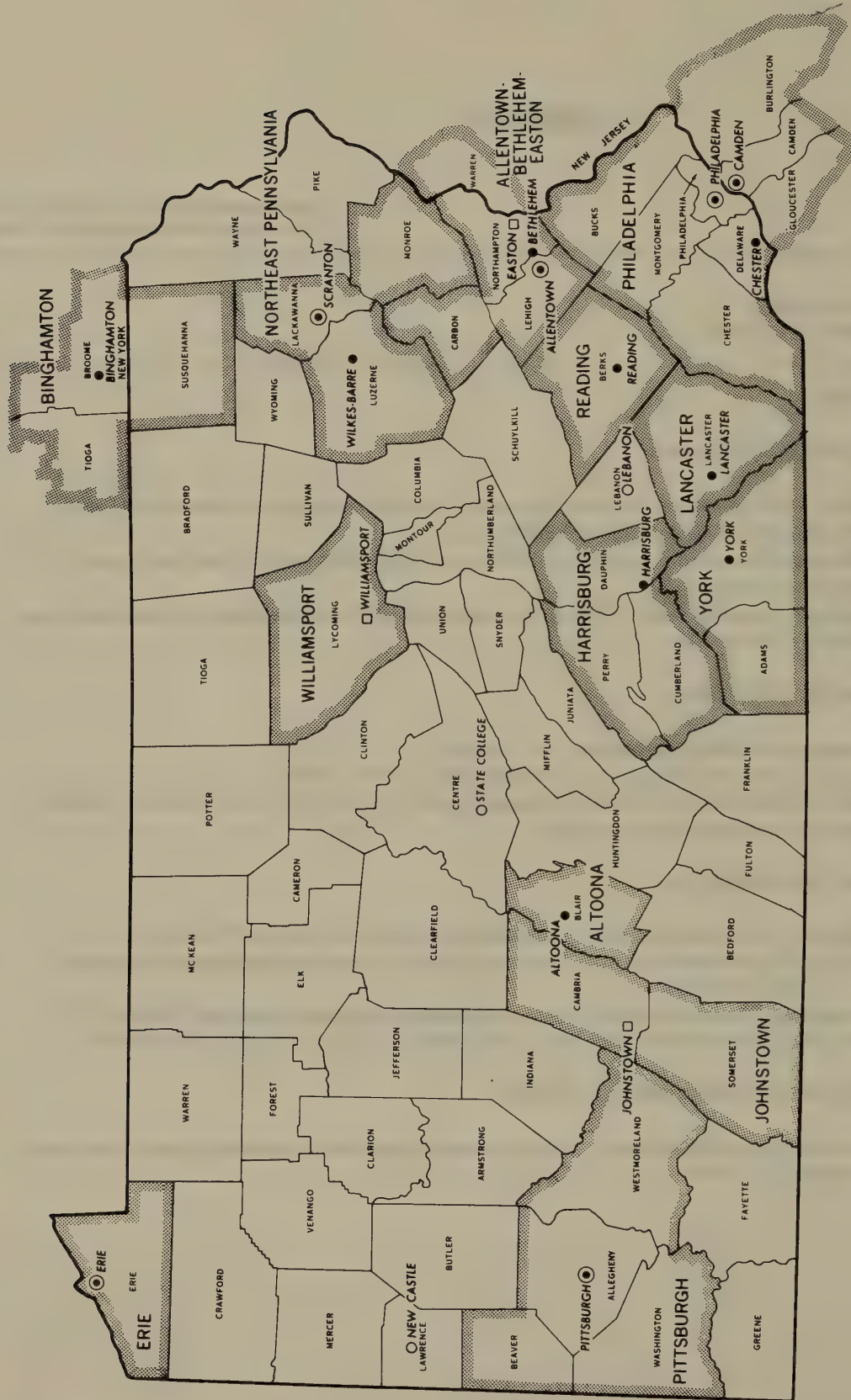
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PENNSYLVANIA



LEGEND

- Places of 100,000 or more inhabitants
- Places of 50,000 to 100,000 inhabitants
- Central cities of SMSA's with fewer than 50,000 inhabitants
- Places of 25,000 to 50,000 inhabitants outside SMSA's



Standard Metropolitan
Statistical Areas (SMSA's)

SUMMARY OF FINDINGS

In 1977, 1,329.2 thousand persons were employed in Pennsylvania's manufacturing establishments. This figure represented a decrease of 9 percent from the 1972 figure of 1,417.5 thousand workers.

The total value added by manufacture for the State amounted to \$36,017 million in 1977, an increase of approximately 53 percent from the 1972 figure of \$23,519 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were primary metal industries; apparel and other textile products; machinery, except electrical; and electric and electronic equipment. They accounted for approximately 41 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 42 percent of the State's employment.

The most important counties in the State ranked by employment were Philadelphia, Allegheny, Montgomery, and Lancaster. They accounted for approximately 35 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 37 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 3 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Pennsylvania:						
1977.....	1,329.2	18,042.7	1,241.9	16,308.8	87.3	1,733.9
1972.....	1,417.5	12,794.1	1,330.4	11,627.2	87.1	1,166.9
1967.....	1,549.5	10,349.7	1,468.9	9,506.0	80.6	843.7
1963.....	1,392.9	8,008.6	1,324.7	7,372.7	68.2	636.0
STANDARD CONSOLIDATED STATISTICAL AREA						
Philadelphia-Wilmington-Trenton, Pa.-Del.-N.J.-Md.:						
1977.....	550.5	8,072.4	487.8	6,814.0	62.7	1,258.4
1972.....	597.8	5,900.8	543.5	5,127.6	54.3	773.2
STANDARD METROPOLITAN STATISTICAL AREAS						
Allentown-Bethlehem-Easton, Pa.-N.J.:						
1977.....	106.8	1,430.8	97.1	1,217.2	9.7	213.6
1972.....	110.4	980.6	102.2	853.0	8.2	127.6
Altoona:						
1977.....	12.1	134.6	(D)	(D)	(D)	(D)
1972.....	15.6	106.7	(D)	(D)	(D)	(D)
1967.....	14.6	78.0	(D)	(D)	(D)	(D)
1963.....	11.7	53.6	(D)	(D)	(D)	(D)
Binghamton, N.Y.-Pa.:						
1977.....	39.6	578.1	38.9	569.2	.7	8.9
1972.....	36.4	377.4	35.6	371.0	.8	6.4
1967.....	46.1	347.5	45.1	340.8	1.0	6.7
1963.....	41.6	259.0	(D)	(D)	(D)	(D)
Erie:						
1977.....	42.0	600.7	41.6	592.7	.4	8.0
1972.....	42.5	408.2	(D)	(D)	(D)	(D)
1967.....	42.3	298.4	42.1	296.8	.2	1.6
1963.....	36.4	220.8	35.7	215.8	.7	5.1
Harrisburg:						
1977.....	40.4	515.8	36.1	442.3	4.3	73.5
1972.....	40.1	324.8	36.7	290.2	3.4	34.6
1967.....	37.9	233.1	35.3	207.5	2.6	25.6
1963.....	33.5	165.1	31.4	148.3	2.0	16.8
Johnstown:						
1977.....	20.8	290.9	(D)	(D)	(D)	(D)
1972.....	23.1	204.4	(D)	(D)	(D)	(D)
1967.....	25.1	161.4	(D)	(D)	(D)	(D)
1963.....	23.0	128.1	(D)	(D)	(D)	(D)
Lancaster:						
1977.....	56.4	693.6	54.0	646.2	2.4	47.4
1972.....	53.0	446.4	50.6	416.1	2.3	30.0
1967.....	54.1	333.1	52.0	311.2	2.1	21.9
1963.....	47.9	255.1	(D)	(D)	(D)	(D)
Northeast Pennsylvania:						
1977.....	70.9	685.0	68.5	657.1	2.4	27.9
1972.....	82.8	540.1	81.7	531.0	1.1	9.7
1967.....	83.4	390.5	82.0	382.2	1.4	8.3
1963.....	72.8	280.0	(D)	(D)	(D)	(D)
Philadelphia, Pa.-N.J.:						
1977.....	451.8	6,364.7	418.7	5,764.9	33.1	599.8
1972.....	495.7	4,774.6	465.9	4,377.6	29.8	397.0
1967.....	573.8	4,125.2	549.4	3,875.5	24.4	249.7
1963.....	535.8	3,310.6	512.8	3,108.7	23.0	201.9
Pittsburgh:						
1977.....	239.7	4,037.5	206.8	3,292.7	32.9	744.6
1972.....	262.8	2,836.6	222.8	2,261.7	40.0	574.9
1967.....	299.6	2,383.0	258.2	1,924.4	41.4	458.6
1963.....	272.2	1,925.6	237.2	1,577.8	35.0	347.8
Reading:						
1977.....	50.1	623.6	48.4	597.3	1.7	26.3
1972.....	51.8	429.5	50.2	410.3	1.6	19.2
1967.....	56.4	334.3	56.0	329.9	.4	4.4
1963.....	50.7	255.1	50.1	250.1	.6	5.0
Williamsport:						
1977.....	17.5	202.7	17.2	197.8	.3	4.9
1972.....	18.7	138.1	(D)	(D)	(D)	(D)
York:						
1977.....	59.0	716.0	57.7	697.7	1.3	18.3
1972.....	56.6	464.2	55.8	454.6	.8	9.6
1967.....	57.0	324.4	56.7	322.1	.3	2.3
1963.....	48.7	224.1	48.4	221.0	.3	3.1

(D) Withheld to avoid disclosing operations of individual companies.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

**Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas:
1977 and Earlier Years**

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers					Comparative indexes and U.S. employment					
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	United States		
													Index of State em- ploy- ment change (1977= 100)	Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)
PENNSYLVANIA															
1977 CENSUS.	18 735	7 704	1 329.2	18 042.7	934.1	1 781.6	10 948.8	36 016.9	44 393.0	79 844.8	2 297.4	6.78	100	100	19 596.9
1976 ASM....	(NA)	(NA)	1 310.2	16 491.7	915.7	1 749.6	9 873.8	32 221.6	40 002.7	71 918.5	2 000.5	6.99	99	96	18 753.0
1975 ASM....	(NA)	(NA)	1 330.9	15 248.5	914.7	1 742.6	9 080.9	29 432.2	36 733.7	65 847.0	1 995.6	7.27	100	94	18 302.2
1974 ASM....	(NA)	(NA)	1 477.7	15 564.3	1 052.3	2 033.6	9 701.5	31 497.9	37 222.9	67 552.9	2 045.0	7.45	111	102	19 844.8
1973 ASM....	(NA)	(NA)	1 465.2	14 164.1	1 058.8	2 049.4	8 864.7	26 818.3	29 254.2	55 585.6	1 569.2	7.36	110	102	19 897.9
1972 CENSUS.	18 398	8 070	1 417.5	12 794.1	1 015.0	1 953.9	7 885.7	23 518.5	25 160.6	48 344.8	1 479.3	7.45	107	98	19 028.7
1971 ASM....	(NA)	(NA)	1 426.4	11 824.6	1 013.9	1 941.5	7 191.4	21 964.0	22 739.8	44 703.6	1 487.9	7.77	107	94	18 363.1
1970 ASM....	(NA)	(NA)	1 514.0	11 824.3	1 084.6	2 098.5	7 266.9	21 448.2	22 342.8	43 525.6	1 572.8	7.88	114	99	19 217.2
1969 ASM....	(NA)	(NA)	1 573.0	11 771.1	1 138.2	2 232.3	7 319.2	22 136.5	22 189.9	43 525.6	1 547.3	7.85	118	103	20 035.5
1968 ASM....	(NA)	(NA)	1 553.8	10 965.8	1 130.6	2 216.6	6 860.8	20 318.3	20 810.5	40 998.9	1 592.0	7.96	117	100	19 527.6
1967 CENSUS.	18 771	8 369	1 549.5	10 349.7	1 136.2	2 211.3	6 488.7	19 276.8	19 574.0	38 590.5	1 633.4	8.02	117	99	19 323.2
1966 ASM....	(NA)	(NA)	1 552.4	10 050.8	1 153.1	2 288.0	6 443.0	18 752.3	19 849.9	38 163.7	1 423.5	8.16	117	98	19 024.5
1965 ASM....	(NA)	(NA)	1 491.5	9 228.5	1 108.8	2 191.4	5 944.9	17 115.9	18 258.1	35 076.6	1 074.9	8.28	112	92	18 010.2
1964 ASM....	(NA)	(NA)	1 433.7	8 599.9	1 057.6	2 089.5	5 495.5	15 406.2	16 834.8	31 994.9	829.9	8.30	108	89	17 268.5
1963 CENSUS.	19 459	7 981	1 392.9	8 008.6	1 028.0	2 002.1	5 110.7	14 043.6	(NA)	(NA)	777.7	8.21	105	87	16 958.4
PHILADELPHIA-WILMINGTON-TRENTON, PA.-DEL.-N.J.-MD.															
1977 CENSUS.	8 964	3 306	550.5	8 072.4	343.8	667.7	4 192.6	15 796.6	22 402.4	38 008.3	921.5	2.81	100	100	19 596.9
1972 CENSUS.	8 833	3 560	597.8	5 900.8	387.0	755.0	3 211.0	11 008.5	12 384.1	23 294.5	689.3	3.13	108	98	19 028.7
ALLENTOWN-BETHLEHEM-EASTON, PA.-N.J.; SMSA															
1977 CENSUS.	1 183	621	106.8	1 430.8	75.8	140.9	853.3	2 731.8	3 105.1	5 828.2	172.8	.55	100	100	19 596.9
1976 ASM....	(NA)	(NA)	107.6	1 346.9	74.5	142.0	775.8	2 483.2	3 194.6	5 673.4	191.5	.57	101	96	18 753.0
1975 ASM....	(NA)	(NA)	111.2	1 386.9	76.5	143.7	739.5	2 193.8	3 008.3	5 193.0	224.1	.61	104	94	18 302.2
1974 ASM....	(NA)	(NA)	116.8	1 240.2	82.9	159.3	745.1	2 369.3	2 993.8	5 227.1	215.4	.59	109	102	19 844.8
1973 ASM....	(NA)	(NA)	113.5	1 083.5	81.6	153.5	671.1	2 185.3	2 169.6	4 255.9	176.1	.57	106	102	19 897.9
1972 CENSUS.	1 116	645	110.4	980.6	80.6	149.0	592.6	1 805.6	1 768.5	3 553.8	164.5	.58	103	98	19 028.7
ERIE SMSA															
1977 CENSUS.	510	209	42.0	600.7	29.0	55.8	356.5	1 254.8	1 093.8	2 323.7	76.3	.21	100	100	19 596.9
1976 ASM....	(NA)	(NA)	46.1	569.9	33.3	63.0	345.4	1 200.2	1 018.1	2 238.8	79.6	.25	110	96	18 753.0
1975 ASM....	(NA)	(NA)	48.0	546.2	33.5	64.6	330.0	1 092.7	982.6	2 066.4	60.4	.26	114	94	18 302.2
1974 ASM....	(NA)	(NA)	51.6	566.7	36.4	72.4	359.2	1 105.0	966.7	2 009.7	77.6	.26	123	102	19 844.8
1973 ASM....	(NA)	(NA)	45.5	462.9	31.2	62.9	281.0	857.7	745.4	1 580.4	52.6	.23	108	102	19 897.9
1972 CENSUS.	480	203	42.5	408.2	29.0	57.5	244.8	764.8	647.7	1 401.5	48.5	.22	101	98	19 028.7
1971 ASM....	(NA)	(NA)	41.8	377.9	28.6	56.4	226.3	692.8	576.7	1 256.8	61.6	.23	99	94	18 363.1
1970 ASM....	(NA)	(NA)	43.0	357.5	30.1	57.6	214.9	639.2	517.9	1 145.8	60.6	.22	102	99	19 217.2
1969 ASM....	(NA)	(NA)	42.2	331.7	29.8	60.5	205.5	622.5	481.0	1 085.7	44.5	.21	100	103	20 035.5
1968 ASM....	(NA)	(NA)	43.0	319.7	30.8	62.3	200.7	598.9	492.9	1 082.5	37.9	.22	102	100	19 527.6
1967 CENSUS.	461	205	42.3	298.4	30.3	61.4	191.6	575.1	456.4	1 033.4	33.5	.22	101	99	19 323.2
1966 ASM....	(NA)	(NA)	44.5	304.4	32.8	68.2	200.9	594.4	470.0	1 049.7	33.0	.23	106	98	19 024.5
1965 ASM....	(NA)	(NA)	41.2	272.5	30.4	62.8	179.2	523.8	430.9	944.6	29.9	.23	98	92	18 010.2
1964 ASM....	(NA)	(NA)	38.2	247.3	27.8	58.1	150.8	473.2	387.9	840.3	19.9	.22	91	89	17 268.5
1963 CENSUS.	(NA)	(NA)	36.4	220.8	26.3	52.5	142.4	414.1	(NA)	(NA)	18.2	.21	87	87	16 958.4
HARRISBURG SMSA															
1977 CENSUS.	495	206	40.4	515.8	27.5	52.1	302.8	1 164.2	1 414.5	2 563.5	66.7	.21	100	100	19 596.9
1976 ASM....	(NA)	(NA)	38.8	453.2	25.9	49.6	263.3	1 014.6	1 194.1	2 215.1	43.2	.21	96	96	18 753.0
1975 ASM....	(NA)	(NA)	38.8	409.5	26.3	49.8	243.1	859.5	1 112.2	1 970.2	50.1	.21	96	94	18 302.2
1974 ASM....	(NA)	(NA)	42.8	415.7	29.2	56.1	246.7	853.1	1 119.1	1 917.6	69.4	.22	106	102	19 844.8
1973 ASM....	(NA)	(NA)	44.7	397.3	30.8	61.0	240.9	783.2	870.3	1 634.5	56.1	.22	111	102	19 897.9
1972 CENSUS.	93	44	40.1	324.8	28.3	55.4	203.4	713.6	779.9	1 485.3	78.3	.21	99	98	19 028.7
1967 CENSUS.	431	208	37.9	233.1	28.5	56.5	153.1	487.3	583.5	1 064.2	27.4	.20	94	99	19 323.2
1963 CENSUS.	46 319	6	33.5	165.1	25.5	49.1	109.2	353.0	(NA)	(NA)	13.1	.20	83	87	16 958.4
LANCASTER SMSA															
1977 CENSUS.	770	340	56.4	693.6	41.0	80.0	425.4	1 492.5	1 852.1	3 304.8	117.7	.29	100	100	19 596.9
1976 ASM....	(NA)	(NA)	54.0	607.2	39.1	75.8	376.3	1 331.3	1 671.0	2 986.1	95.0	.29	96	96	18 753.0
1975 ASM....	(NA)	(NA)	51.5	534.2	36.2	68.8	324.7	1 140.0	1 461.1	2 608.7	50.1	.28	91	94	18 302.2
1974 ASM....	(NA)	(NA)	55.9	542.8	40.2	78.3	337.6	1 136.9	1 477.6	2 556.7	69.3	.28	99	102	19 844.8
1973 ASM....	(NA)	(NA)	56.1	513.3	41.1	81.1	320.5	1 084.7	1 179.1	2 230.4	73.5	.28	99	102	19 897.9
1972 CENSUS.	719	334	53.0	446.4	38.9	77.1	280.3	953.0	1 014.7	1 939.4	85.9	.28	94	98	19 028.7
1971 ASM....	(NA)	(NA)	49.4	391.8	35.3	69.4	244.0	791.8	807.6	1 606.5	62.5	.27	88	94	18 363.1
1970 ASM....	(NA)	(NA)	53.8	396.2	38.5	76.6	242.5	773.2	781.3	1 536.2	58.2	.28	95	99	19 217.2
1969 ASM....	(NA)	(NA)	55.8	387.3	42.3	83.8	251.1	818.3	759.2	1 565.5	65.7	.28	99	103	20 035.5
1968 ASM....	(NA)	(NA)	55.0	355.9	41.4	80.9	225.2	732.1	692.3	1 420.3	49.7	.28	98	100	19 527.6
1967 CENSUS.	660	302	54.1	333.1	41.3	81.6	214.2	721.6	650.7	1 371.3	46.6	.28	96	99	19 323.2
1966 ASM....	(NA)	(NA)	55.2	332.3	43.0	86.9	217.6	735.8	6 624.4	1 343.3	44.4	.29	98	98	19 024.5
1965 ASM....	(NA)	(NA)	51.6	293.6	39.6	79.4	189.9	643.4	537.4	1 175.1	43.3	.29	91	92	18 010.2
1964 ASM....	(NA)	(NA)	47.6	269.1	36.0	74.4	173.0	596.1	494.5	1 087.2	40.5	.28	84	89	17 268.5
1963 CENSUS.	673	295	47.9	255.1	35.9	71.8	160.2	532.6	(NA)	(NA)	26.3	.28	85	87	16 958.4

See footnotes at end of table.

**Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas:
1977 and Earlier Years—Con.**

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers							Comparative indexes and U.S. employment				
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	Index of State em- ploy- ment change (1977= 100)	United States		
														Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)	
NORTHEAST PENNSYLVANIA SMSA																
1977 CENSUS.	1 266	664	70.9	685.0	56.4	101.4	482.3	1 327.8	1 293.9	2 583.0	93.5	.36	100	100	19 596.9	
1976 ASM....	(NA)	(NA)	66.3	612.2	52.8	96.7	437.0	1 201.5	1 176.0	2 369.9	78.0	.35	94	96	18 753.0	
1975 ASM....	(NA)	(NA)	66.3	560.4	52.3	96.3	397.8	1 146.4	1 076.5	2 229.5	73.1	.36	94	94	18 302.2	
1974 ASM....	(NA)	(NA)	74.7	575.8	59.9	111.2	416.3	1 194.5	1 064.0	2 207.2	66.6	.38	105	102	19 844.8	
1973 ASM....	(NA)	(NA)	83.1	588.0	67.3	125.8	430.0	1 117.7	926.2	2 024.2	57.4	.42	117	102	19 897.9	
1972 ASM....	1 305	728	82.8	540.1	68.4	124.2	399.7	1 024.2	867.5	1 892.4	55.7	.45	117	94	18 363.1	
1971 ASM....	0	0	81.4	486.5	66.4	121.2	354.4	925.0	758.0	1 679.0	35.8	.44	115	94	18 363.1	
1970 ASM....	(NA)	(NA)	84.1	465.6	69.2	127.1	340.6	860.4	722.3	1 556.9	41.1	.44	119	99	19 217.2	
1969 ASM....	(NA)	(NA)	85.5	449.4	71.3	132.2	334.3	819.9	757.3	1 575.3	39.3	.43	121	103	20 035.5	
1968 ASM....	(NA)	(NA)	84.1	418.3	70.2	130.4	313.5	821.6	743.3	1 559.0	42.1	.43	119	100	19 527.6	
1967 CENSUS.	1 260	714	83.4	390.5	69.7	129.5	294.4	756.3	663.9	1 412.3	37.5	.43	118	99	19 323.2	
1963 CENSUS.	1 260	665	72.8	280.0	62.1	114.0	216.0	501.2	(NA)	(NA)	19.1	.43	103	87	16 958.4	
PHILADELPHIA, PA.-N.J., SMSA																
1977 CENSUS.	7 946	2 909	451.8	6 364.7	293.5	569.0	3 510.6	13 429.6	18 223.2	31 507.5	723.4	2.31	100	100	19 596.9	
1976 ASM....	(NA)	(NA)	437.2	5 780.4	283.5	546.3	3 117.0	11 646.4	15 866.9	27 467.4	566.0	2.33	97	96	18 753.0	
1975 ASM....	(NA)	(NA)	449.2	5 425.6	286.8	549.5	2 897.0	10 353.2	14 633.5	24 957.1	606.0	2.45	99	94	18 302.2	
1974 ASM....	(NA)	(NA)	502.1	5 495.7	330.8	642.0	3 103.4	10 998.0	14 561.2	25 275.5	758.8	2.53	111	102	19 844.8	
1973 ASM....	(NA)	(NA)	503.5	5 112.9	342.7	667.2	2 974.2	10 055.7	11 392.0	21 276.9	620.1	2.53	111	102	19 897.9	
1972 CENSUS.	7 889	3 161	495.7	4 774.6	331.4	644.3	2 714.6	9 189.9	9 904.2	19 049.5	570.0	2.61	110	98	19 028.7	
1971 ASM....	(NA)	(NA)	500.2	4 505.1	330.7	648.0	2 518.0	8 693.5	9 396.6	18 156.1	535.4	2.72	111	94	18 363.1	
1970 ASM....	(NA)	(NA)	538.2	4 554.9	358.5	705.5	2 569.1	8 575.5	9 340.8	17 898.1	550.4	2.80	119	99	19 217.2	
1969 ASM....	(NA)	(NA)	578.3	4 675.5	387.2	771.4	2 648.9	9 047.4	9 110.9	18 046.9	563.7	2.89	128	103	20 035.5	
1968 ASM....	(NA)	(NA)	573.3	4 367.3	388.5	772.9	2 501.6	8 365.7	8 657.2	17 017.3	501.3	2.94	127	100	19 527.6	
1967 CENSUS.	7 938	3 317	573.8	4 125.2	397.5	782.5	2 405.6	7 958.8	8 242.1	16 016.5	624.9	2.97	127	99	19 323.2	
1966 ASM....	(NA)	(NA)	571.0	3 973.8	396.1	793.0	2 333.9	7 541.4	8 113.1	15 431.0	523.5	3.00	126	98	19 024.5	
1963 CENSUS.	8 287	3 212	535.8	3 310.6	374.8	743.5	1 998.1	6 031.6	(NA)	(NA)	297.5	3.16	119	87	16 958.4	
PITTSBURGH SMSA																
1977 CENSUS.	2 662	957	239.7	4 037.5	153.9	294.0	2 311.5	6 478.4	9 144.9	15 480.5	558.0	1.22	100	100	19 596.9	
1976 ASM....	(NA)	(NA)	240.6	3 709.8	151.0	286.2	2 065.7	6 047.1	8 477.5	14 456.7	502.8	1.28	100	96	18 753.0	
1975 ASM....	(NA)	(NA)	255.8	3 436.6	155.9	293.9	1 923.5	6 186.7	7 755.9	13 628.9	457.5	1.40	107	94	18 302.2	
1974 ASM....	(NA)	(NA)	277.7	3 578.9	182.8	355.5	2 120.6	6 903.1	8 379.5	15 007.0	375.8	1.40	116	102	19 844.8	
1973 ASM....	(NA)	(NA)	269.9	3 171.4	175.5	345.5	1 803.5	5 070.9	6 279.4	11 375.6	246.3	1.36	113	102	19 897.9	
1972 CENSUS.	2 530	981	262.8	2 836.6	166.9	323.7	1 577.5	4 163.9	5 400.5	9 432.7	254.7	1.38	110	98	19 028.7	
1971 ASM....	(NA)	(NA)	267.9	2 598.5	169.1	324.9	1 422.5	4 039.0	4 846.3	8 892.0	281.1	1.46	112	94	18 363.1	
1970 ASM....	(NA)	(NA)	289.6	2 623.7	186.3	360.5	1 471.1	4 038.1	4 828.7	8 800.3	329.4	1.51	121	99	19 217.2	
1969 ASM....	(NA)	(NA)	299.0	2 611.9	196.3	381.2	1 488.6	4 368.8	4 930.1	9 211.9	331.6	1.49	125	103	20 035.5	
1968 ASM....	(NA)	(NA)	298.8	2 481.3	196.6	382.9	1 330.9	3 980.9	4 695.9	8 691.0	453.0	1.53	125	100	19 527.6	
1967 CENSUS.	2 464	1 023	299.6	2 383.0	197.1	380.6	1 350.2	3 838.1	4 441.7	8 204.5	385.5	1.55	125	99	19 323.2	
1966 ASM....	(NA)	(NA)	298.7	2 328.7	203.9	401.3	1 385.7	3 881.5	4 712.2	8 551.1	317.8	1.57	125	98	19 024.5	
1965 ASM....	(NA)	(NA)	291.8	2 198.9	199.6	391.7	1 324.5	3 654.9	4 514.1	8 127.7	250.7	1.62	122	92	18 010.2	
1964 ASM....	(NA)	(NA)	285.2	2 807.4	192.9	381.9	1 243.9	3 283.8	4 295.8	7 514.3	192.3	1.65	119	89	17 268.5	
1963 CENSUS.	2 578	947	272.2	1 925.6	181.1	351.8	1 119.0	2 879.2	(NA)	(NA)	199.9	1.61	114	87	16 958.4	
READING SMSA																
1977 CENSUS.	667	309	50.1	623.6	37.7	73.7	416.5	1 378.8	1 542.4	2 894.9	85.1	.26	100	100	19 596.9	
1976 ASM....	(NA)	(NA)	49.6	551.0	36.5	70.7	356.8	1 155.3	1 203.7	2 337.4	66.2	.26	99	96	18 753.0	
1975 ASM....	(NA)	(NA)	48.1	491.6	35.1	66.5	311.0	954.4	1 047.2	2 021.3	76.4	.26	96	94	18 302.2	
1974 ASM....	(NA)	(NA)	52.4	494.9	39.3	76.3	332.1	983.2	1 119.1	2 075.6	64.3	.26	105	102	19 844.8	
1973 ASM....	(NA)	(NA)	53.3	471.6	40.9	77.9	318.6	978.1	981.1	1 925.5	52.5	.27	106	102	19 897.9	
1972 CENSUS.	631	317	51.8	429.5	39.7	75.8	290.2	865.4	832.2	1 682.8	48.3	.27	103	98	19 028.7	
1971 ASM....	(NA)	(NA)	52.8	402.4	40.1	75.9	267.2	768.2	743.0	1 507.1	49.0	.29	105	94	18 363.1	
1970 ASM....	(NA)	(NA)	54.6	387.5	41.6	79.8	256.0	725.2	707.9	1 427.9	61.9	.28	109	99	19 217.2	
1969 ASM....	(NA)	(NA)	58.1	393.7	45.5	91.0	270.2	746.7	738.9	1 466.9	44.0	.29	116	103	20 035.5	
1968 ASM....	(NA)	(NA)	57.0	362.8	45.2	90.1	251.4	679.9	657.2	1 323.9	36.1	.29	114	100	19 527.6	
1967 CENSUS.	666	336	56.4	334.3	44.6	88.0	230.2	597.5	617.9	1 215.0	50.8	.29	113	99	19 323.2	
1966 ASM....	(NA)	(NA)	55.0	321.4	43.9	87.6	224.6	584.0	660.0	1 230.2	49.0	.29	110	98	19 024.5	
1965 ASM....	(NA)	(NA)	54.8	306.5	43.8	89.2	214.5	565.0	594.6	1 149.6	31.9	.30	109	92	18 010.2	
1964 ASM....	(NA)	(NA)	52.7	282.7	42.1	84.6	194.7	482.6	526.3	1 007.1	25.8	.31	105	89	17 268.5	
1963 CENSUS.	677	311	50.7	255.1	39.9	77.9	175.4	429.5	(NA)	(NA)	24.6	.30	101	87	16 958.4	
YORK SMSA																
1977 CENSUS.	734	342	59.0	716.0	45.3	88.2	471.5	1 517.5	1 579.0	3 041.0	86.7	.30	100	100	19 596.9	
1976 ASM....	(NA)	(NA)	57.2	633.1	43.9	86.5	416.5	1 215.0	1 467.7	2 642.4	89.1	.31	97	96	18 753.0	
1975 ASM....	(NA)	(NA)	55.3	567.1	42.3	83.7	373.9	1 105.8	1 257.0	2 379.0	90.0	.30	94	94	18 302.2	
1974 ASM....	(NA)	(NA)	58.4	555.2	45.8	92.4	378.5	1 109.4	1 241.8	2 289.7	79.3	.29	99	102	19 844.8	
1973 ASM....	(NA)	(NA)	58.8	510.0	45.8	92.7	345.5	1 062.4	964.0	1 988.0	53.2	.30	100	102	19 897.9	
1972 CENSUS.	700	363	56.6	464.2	44.4	89.4	316.8	865.7	846.2	1 732.7	45.1	.30	96	98	19 028.7	
1971 ASM....	(NA)	(NA)	54.9	408.8	42.5	84.3	265.0	837.8	776.9	1 584.8	40.9	.30	93	94	18 363.1	
1970 ASM....	(NA)	(NA)	58.8	402.4	45.7	91.7	267.3	806.4	759.7	1 536.6	48.2	.31	100	99	19 217.2	
1969 ASM....	(NA)	(NA)	60.7	397.9	48.0	98.4	277.6	801.5	742.3	1 538.1	61.3	.30	103	103	20 035.5	
1968 ASM....	(NA)	(NA)	58.1	352.4	46.5	95.4	247.7	711.4	683.2	1 393.8	56.0					

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
PENNSYLVANIA									
1977 CENSUS.....	13 574	70	1 907	6.15	56	78	27 097	50	20.22
1976 ASM.....	12 587	70	1 911	5.64	56	79	24 593	51	18.42
1975 ASM.....	11 457	69	1 905	5.21	56	79	22 115	52	16.89
1974 ASM.....	10 533	71	1 933	4.77	55	78	21 315	49	15.49
1973 ASM.....	9 667	72	1 936	4.33	53	78	18 304	53	13.09
1972 CENSUS.....	9 026	72	1 925	4.04	52	79	16 592	54	12.04
1971 ASM.....	8 290	71	1 915	3.70	51	77	15 398	54	11.31
1970 ASM.....	7 810	0	1 935	3.46	51	78	14 167	55	10.22
1969 ASM.....	7 483	72	1 961	3.28	51	78	14 073	53	9.92
1968 ASM.....	7 057	73	1 961	3.10	51	78	13 077	54	9.17
1967 CENSUS.....	6 679	73	1 946	2.93	51	78	12 441	54	8.72
1966 ASM.....	6 474	74	1 984	2.82	52	78	12 080	54	8.20
1965 ASM.....	6 187	74	1 976	2.71	52	78	11 476	54	7.81
1964 ASM.....	5 998	74	1 976	2.63	53	79	10 746	56	7.37
1963 CENSUS.....	5 750	74	1 948	2.55	(NA)	(NA)	10 082	57	7.01
PHILADELPHIA-WILMINGTON-TRENTON, PA.-DEL.-N.J.-MD.									
1977 CENSUS.....	14 664	62	1 942	6.28	59	80	28 695	51	23.66
1972 CENSUS.....	9 911	65	1 958	4.22	51	77	18 415	54	14.52
ALLEN TOWN-BETHLEHEM-EASTON, PA.-N.J., SMSA									
1977 CENSUS.....	13 400	71	1 858	6.05	53	78	25 584	52	19.38
1976 ASM.....	12 518	69	1 906	5.46	56	80	23 078	54	17.49
1975 ASM.....	11 573	69	1 878	5.15	58	83	19 728	59	15.27
1974 ASM.....	10 618	71	1 922	4.68	57	81	20 285	52	14.87
1973 ASM.....	9 546	72	1 881	4.37	51	76	19 254	50	14.24
1972 CENSUS.....	8 882	73	1 849	3.98	50	77	16 355	54	12.12
1971 ASM.....	8 240	72	1 873	3.69	47	77	14 410	57	10.65
1970 ASM.....	7 668	73	1 883	3.39	49	78	13 932	55	10.12
1969 ASM.....	1 488	74	1 891	3.28	51	57	12 441	12	8.87
1968 ASM.....	6 958	73	1 892	3.13	49	79	11 991	58	8.66
1967 CENSUS.....	6 468	74	1 883	2.91	50	81	10 655	61	7.69
1966 ASM.....	6 193	75	1 912	2.74	51	81	10 346	60	7.23
1965 ASM.....	5 943	75	1 930	2.64	52	82	9 732	61	6.72
1964 ASM.....	5 777	74	1 892	2.56	50	81	9 465	61	6.72
1963 CENSUS.....	5 527	74	1 888	2.45	(NA)	(NA)	8 893	62	6.32
ERIE SMSA									
1977 CENSUS.....	14 294	59	1 928	6.38	47	73	29 860	48	22.47
1976 ASM.....	12 362	72	1 892	5.48	45	71	26 035	47	19.05
1975 ASM.....	11 379	70	1 928	5.11	48	74	22 765	50	16.91
1974 ASM.....	10 983	71	1 989	4.96	48	76	21 415	51	15.26
1973 ASM.....	10 174	69	2 016	4.47	47	76	18 851	54	13.64
1972 CENSUS.....	9 605	68	1 983	4.26	46	75	17 995	53	13.30
1971 ASM.....	9 041	68	1 972	4.01	46	76	16 574	55	12.28
1970 ASM.....	8 314	70	1 914	3.73	45	76	14 865	56	11.10
1969 ASM.....	7 860	71	2 030	3.40	44	75	14 751	53	10.29
1968 ASM.....	7 435	72	2 023	3.22	46	75	13 928	53	9.61
1967 CENSUS.....	7 054	72	2 026	3.12	44	73	13 596	52	9.37
1966 ASM.....	6 840	74	2 079	2.95	45	74	13 357	51	8.72
1965 ASM.....	6 614	74	2 066	2.85	46	74	12 714	52	8.34
1964 ASM.....	6 474	73	2 090	2.60	46	76	12 387	52	8.14
1963 CENSUS.....	6 066	72	1 996	2.71	(NA)	(NA)	11 376	53	7.89
HARRISBURG SMSA									
1977 CENSUS.....	12 768	68	1 894	5.81	55	75	28 821	44	22.36
1976 ASM.....	11 680	67	1 915	5.31	54	74	26 149	45	20.46
1975 ASM.....	10 554	68	1 894	4.88	56	77	22 152	48	17.26
1974 ASM.....	9 713	68	1 921	4.40	58	80	19 932	49	15.21
1973 ASM.....	8 888	69	1 981	3.95	53	78	17 521	51	12.84
1972 CENSUS.....	8 100	71	1 958	3.67	53	74	17 796	46	12.88
1967 CENSUS.....	6 150	75	1 982	2.71	55	77	12 858	48	8.62
1963 CENSUS.....	4 928	76	1 925	2.22	(NA)	(NA)	10 537	47	7.19
LANCASTER SMSA									
1977 CENSUS.....	12 296	73	1 951	5.32	56	77	26 460	46	18.67
1976 ASM.....	11 244	72	1 939	4.96	56	76	24 654	46	17.56
1975 ASM.....	10 373	70	1 901	4.72	56	76	22 136	47	16.57
1974 ASM.....	9 710	72	1 948	4.31	58	79	20 338	48	14.52
1973 ASM.....	9 150	73	1 973	3.95	53	76	19 335	47	13.37
1972 CENSUS.....	8 423	73	1 982	3.64	52	75	17 981	47	12.36
1971 ASM.....	7 931	71	1 966	3.52	50	75	16 028	49	11.41
1970 ASM.....	7 364	72	1 990	3.17	51	77	14 372	51	10.09
1969 ASM.....	6 941	76	1 981	3.00	48	73	14 665	47	9.76
1968 ASM.....	6 471	75	1 954	2.78	49	74	13 311	49	9.05
1967 CENSUS.....	6 157	76	1 976	2.62	47	72	13 338	46	8.84
1966 ASM.....	6 020	78	2 021	2.50	46	71	13 330	45	8.47
1965 ASM.....	5 690	77	2 005	2.39	46	71	12 469	46	8.10
1964 ASM.....	5 653	76	2 067	2.33	45	70	12 523	45	8.01
1963 CENSUS.....	5 326	75	2 000	2.23	(NA)	(NA)	11 119	48	7.42

See footnotes at end of table.

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years—Con.

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
NORTHEAST PENNSYLVANIA SMSA									
1977 CENSUS.....	9 663	80	1 798	4.76	50	77	18 733	52	13.10
1976 ASM.....	9 234	80	1 831	4.52	50	75	18 122	51	12.43
1975 ASM.....	8 452	79	1 841	4.13	48	73	17 291	49	11.90
1974 ASM.....	7 708	80	1 856	3.74	48	74	15 991	48	10.74
1973 ASM.....	7 076	81	1 869	3.42	46	75	13 450	53	8.88
1971 ASM.....	6 523	83	1 816	3.22	46	74	12 370	53	8.25
1971 ASM.....	5 977	82	1 825	2.92	45	74	11 364	53	7.63
1970 ASM.....	5 536	82	1 837	2.68	46	76	10 231	54	6.77
1969 ASM.....	5 256	83	1 854	2.53	48	77	9 589	55	6.20
1968 ASM.....	4 974	83	1 858	2.40	48	75	9 769	51	6.30
1967 CENSUS.....	4 682	84	1 858	2.27	47	75	9 068	52	5.84
1963 CENSUS.....	3 846	85	1 836	1.89	(NA)	(NA)	6 885	56	4.40
PHILADELPHIA, PA.-N.J., SMSA									
1977 CENSUS.....	14 089	65	1 939	6.17	58	78	29 728	47	23.60
1976 ASM.....	13 221	65	1 927	5.71	58	79	26 639	50	21.32
1975 ASM.....	12 078	64	1 916	5.27	59	80	23 048	52	18.84
1974 ASM.....	10 945	66	1 941	4.83	58	79	21 904	50	17.13
1973 ASM.....	10 155	68	1 947	4.46	54	78	19 972	51	15.07
1972 CENSUS.....	9 632	67	1 944	4.21	52	77	18 539	52	14.26
1971 ASM.....	9 007	66	1 959	3.89	52	77	17 380	52	13.42
1970 ASM.....	8 463	67	1 968	3.64	52	78	15 934	53	12.16
1969 ASM.....	8 085	67	1 992	3.43	50	76	15 645	52	11.73
1968 ASM.....	7 618	68	1 989	3.24	51	77	14 592	52	10.82
1967 CENSUS.....	7 189	69	1 969	3.07	51	77	13 870	52	10.17
1966 ASM.....	6 959	69	2 002	2.94	53	78	13 207	53	9.51
1963 CENSUS.....	6 179	70	1 984	2.69	(NA)	(NA)	11 257	55	8.11
PITTSBURGH SMSA									
1977 CENSUS.....	16 845	64	1 911	7.86	59	85	27 029	62	22.04
1976 ASM.....	15 419	63	1 895	7.22	59	84	25 133	61	21.13
1975 ASM.....	13 435	61	1 885	6.54	57	82	24 186	56	21.05
1974 ASM.....	12 888	66	1 945	5.97	56	80	24 858	52	19.42
1973 ASM.....	11 750	65	1 969	5.22	55	83	18 788	63	14.68
1972 CENSUS.....	10 794	64	1 939	4.87	57	87	15 844	68	12.86
1971 ASM.....	9 700	63	1 921	4.38	55	84	15 077	64	12.43
1970 ASM.....	8 060	64	1 935	4.08	55	85	13 944	65	11.20
1969 ASM.....	8 735	66	1 942	3.91	54	82	14 611	60	11.46
1968 ASM.....	8 304	66	1 948	3.48	54	83	13 323	62	10.40
1967 CENSUS.....	7 954	66	1 931	3.55	54	83	12 811	62	10.08
1966 ASM.....	7 796	68	1 968	3.45	55	82	12 995	60	9.67
1965 ASM.....	7 536	68	1 962	3.38	56	83	12 525	60	9.33
1964 ASM.....	9 844	68	1 980	3.26	57	95	11 514	85	8.60
1963 CENSUS.....	7 074	67	1 943	3.18	(NA)	(NA)	10 578	67	8.18
READING SMSA									
1977 CENSUS.....	12 451	75	1 956	5.65	53	75	27 531	45	18.72
1976 ASM.....	11 109	74	1 937	5.05	51	75	23 292	48	16.34
1975 ASM.....	10 220	73	1 895	4.68	52	76	19 842	52	14.35
1974 ASM.....	9 445	75	1 941	4.35	54	78	18 763	50	12.89
1973 ASM.....	8 848	77	1 905	4.09	51	75	18 351	48	12.56
1972 CENSUS.....	8 292	77	1 909	3.83	49	75	16 707	50	11.42
1971 ASM.....	7 621	76	1 893	3.52	49	76	14 549	52	10.12
1970 ASM.....	7 097	76	1 918	3.21	50	77	13 282	53	9.09
1969 ASM.....	6 776	78	2 000	2.97	50	77	12 852	53	8.21
1968 ASM.....	6 365	79	1 993	2.79	50	77	11 928	53	7.55
1967 CENSUS.....	5 927	79	1 973	2.62	51	78	10 594	56	6.79
1966 ASM.....	5 844	80	1 995	2.56	54	80	10 618	55	6.67
1965 ASM.....	5 593	80	2 037	2.40	52	78	10 310	54	6.33
1964 ASM.....	5 364	80	2 010	2.30	52	80	9 157	59	5.70
1963 CENSUS.....	5 032	79	1 952	2.25	(NA)	(NA)	8 471	59	5.51
YORK SMSA									
1977 CENSUS.....	12 127	77	1 947	5.35	52	75	25 703	47	17.21
1976 ASM.....	11 068	77	1 970	4.82	56	80	21 241	52	14.05
1975 ASM.....	10 255	76	1 979	4.47	53	77	19 996	51	13.21
1974 ASM.....	9 507	78	2 017	4.10	54	78	18 997	50	12.01
1973 ASM.....	8 673	78	2 024	3.73	48	74	18 068	48	11.46
1972 CENSUS.....	8 201	78	2 014	3.54	49	76	15 295	54	9.68
1971 ASM.....	7 446	77	1 984	3.14	49	75	15 260	49	9.94
1970 ASM.....	6 844	78	2 007	2.91	49	76	13 714	50	8.79
1969 ASM.....	6 555	79	2 050	2.82	48	74	13 204	50	8.15
1968 ASM.....	6 065	80	2 052	2.60	49	74	12 244	50	7.46
1967 CENSUS.....	5 691	81	2 037	2.45	50	75	11 623	49	7.06
1966 ASM.....	5 493	81	2 065	2.34	49	74	11 504	48	6.84
1965 ASM.....	5 200	81	2 058	2.22	49	75	10 433	50	6.25
1964 ASM.....	4 959	81	2 066	2.10	50	76	9 746	51	5.82
1963 CENSUS.....	4 602	82	2 020	2.02	(NA)	(NA)	8 998	51	5.44

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹ -----	number -----	18 735	18 398
With 1 to 19 employees -----	do -----	11 031	10 328
With 20 to 99 employees -----	do -----	5 094	5 352
With 100 employees or more -----	do -----	2 610	2 718
All employees, average for year ¹ -----	1,000 -----	1 329.2	1 417.5
Payroll for year, all employees ¹ -----	mil. dollars --	18 042.7	12 794.1
Production workers:			
Average for year -----	1,000 -----	934.1	1 015.0
March -----	do -----	918.2	998.6
May -----	do -----	935.8	1 010.1
August -----	do -----	944.2	1 020.9
November -----	do -----	936.6	1 030.3
Hours -----	millions -----	1 781.6	1 953.9
January to March -----	do -----	434.0	481.9
April to June -----	do -----	456.7	495.0
July to September -----	do -----	442.7	476.5
October to December -----	do -----	448.2	500.5
Wages-----	mil. dollars --	10 948.8	7 885.7
Cost of materials, etc. ² -----	do -----	44 393.0	25 160.6
Materials, parts, containers, etc., consumed -----	do -----	37 910.3	21 830.2
Resales -----	do -----	2 439.6	1 387.3
Fuels consumed -----	do -----	1 681.0	566.0
Purchased electric energy -----	do -----	963.1	464.9
Contract work -----	do -----	1 399.0	912.2
Value of shipments, including resales ² -----	do -----	79 844.8	48 344.8
Value of resales -----	do -----	3 002.2	1 779.1
Value added by manufacture -----	do -----	36 016.9	23 518.5
Manufacturers' inventories:			
Beginning of year -----	do -----	12 136.5	7 280.0
Finished products -----	do -----	3 522.6	2 433.1
Work in process -----	do -----	4 133.0	2 497.9
Materials, supplies, fuel, etc.-----	do -----	4 480.9	2 349.0
End of year -----	do -----	12 857.3	7 616.1
Finished products -----	do -----	3 783.8	2 475.0
Work in process -----	do -----	4 433.7	2 692.0
Materials, supplies, fuel, etc.-----	do -----	4 639.8	2 449.0
Capital expenditures for plant and equipment -----	do -----	2 423.0	1 576.8
New capital expenditures -----	do -----	2 297.4	1 479.3
New buildings and other structures-----	do -----	427.0	343.7
New machinery and equipment-----	do -----	1 870.4	1 135.6
Used capital expenditures -----	do -----	125.5	97.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Including central administrative offices and auxiliaries (for definition, see appendix B).

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	395.4	3
Beginning of year.....	27,576.3	1	Buildings and other structures.....	156.4	4
New capital expenditures.....	2,383.1	1	Machinery and equipment.....	238.6	4
Used capital expenditures.....	137.6	8			
Retirements.....	844.9	2	Depreciation charges during 1977:		
End of year.....	29,252.1	1	Total.....	1,490.8	1
Buildings and other structures:			Buildings and other structures.....	267.8	2
Beginning of year.....	6,663.2	1	Machinery and equipment.....	1,222.9	1
New capital expenditures.....	432.9	1			
Used capital expenditures.....	(40.7)	17	Supplemental labor costs:		
Retirements.....	191.3	3	Total.....	3,546.9	1
End of year.....	6,945.6	1	Legal costs.....	1,288.3	1
Machinery and equipment:			Voluntary costs.....	2,258.5	1
Beginning of year.....	20,913.4	1			
New capital expenditures.....	1,950.2	1	Purchased services:		
Automobiles, trucks, etc., for highway use...	60.8	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	40.4	(NA)	Buildings and other structures.....	(126.3)	26
All other.....	1,524.8	(NA)	Response coverage ratio (percent).....	61	(X)
New machinery and equipment, n.s.k.....	324.1	(NA)	Machinery.....	464.3	13
Used capital expenditures.....	96.9	6	Response coverage ratio (percent).....	61	(X)
Retirements.....	654.1	2	Cost of purchased communication services.....	(181.2)	42
End of year.....	22,306.3	1	Response coverage ratio (percent).....	64	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

Figures in parentheses have standard errors of 15 percent or more.

(NA) Not available.

n.s.k. Not specified by kind.

(X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Places: 1977 and 1972

[Includes places with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972		
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
Pennsylvania -----	-	18 735	7 704	1 329.2	18 042.7	934.1	1 781.6	10 948.8	36 016.9	44 393.0	79 844.8	2 297.4	1 417.5	23 518.5
STANDARD CONSOLIDATED STATISTICAL AREAS														
Philadelphia-Wilmington-Trenton, Pa.-Del.-N.J.-Md. -----	-	8 964	3 306	550.5	8 072.4	343.8	667.7	4 192.6	15 796.6	22 402.4	38 008.3	921.5	597.8	11 008.5
Portion in New Jersey -----	-	2 103	730	112.7	1 619.3	73.8	142.9	903.0	3 159.9	4 732.5	7 864.4	222.0	115.7	2 167.2
Portion in Pennsylvania -----	-	6 390	2 391	384.5	5 457.7	247.5	480.5	2 977.7	11 537.3	14 774.4	26 189.7	587.8	428.8	7 985.9
Portion in Delaware -----	-	419	160	50.7	966.4	20.7	40.6	294.8	1 035.3	2 798.4	3 792.3	107.4	49.6	803.1
Portion in Maryland -----	-	52	25	2.6	29.0	1.9	3.7	17.0	64.0	97.1	161.8	4.2	3.7	52.3
STANDARD METROPOLITAN STATISTICAL AREAS														
Allentown-Bethlehem-Easton, Pa.-N.J. ---	-	1 183	621	106.8	1 430.8	75.8	140.9	853.3	2 731.8	3 105.1	5 828.2	172.8	110.4	1 805.6
Portion in New Jersey -----	-	154	76	12.6	172.9	8.6	17.1	102.5	422.9	523.6	974.2	39.4	14.5	349.2
Portion in Pennsylvania -----	-	1 029	545	94.2	1 257.9	67.2	123.8	750.8	2 308.9	2 581.5	4 853.9	133.4	95.9	1 456.4
Altoona -----	-	147	63	12.1	134.6	9.6	17.9	96.3	340.8	315.9	648.0	23.5	15.6	234.9
Binghamton, N.Y.-Pa. -----	-	389	146	39.6	578.1	22.3	42.9	236.3	1 081.2	1 244.8	2 273.4	(D)	36.4	673.5
Portion in New York -----	-	326	125	37.3	558.7	20.4	39.3	221.8	1 046.7	1 216.5	2 211.3	71.9	34.3	651.9
Portion in Pennsylvania -----	E1	63	21	2.2	19.3	1.9	3.6	14.4	34.6	28.2	62.1	(D)	2.1	21.6
Erie -----	-	510	209	42.0	600.7	29.0	55.8	356.5	1 254.8	1 093.8	2 323.7	76.3	42.5	764.8
Harrisburg -----	-	495	206	40.4	515.8	27.5	52.1	302.8	1 164.2	1 414.5	2 563.5	66.7	40.1	713.6
Johnstown -----	-	293	101	20.8	290.9	16.7	29.0	214.2	463.5	593.1	1 092.3	27.3	23.1	336.9
Lancaster -----	-	770	340	56.4	693.6	41.0	80.0	425.4	1 492.5	1 852.1	3 304.8	117.7	53.0	953.0
Northeast Pennsylvania -----	-	1 266	664	70.9	685.0	56.4	101.4	482.3	1 327.8	1 293.9	2 583.0	93.5	82.8	1 024.2
Philadelphia, Pa.-N.J. -----	-	7 946	2 909	451.8	6 364.7	293.5	569.0	3 510.6	13 429.6	18 223.2	31 507.5	723.4	495.7	9 189.9
Portion in New Jersey -----	-	1 556	518	67.2	907.0	46.0	88.5	532.9	1 892.3	3 448.8	5 317.8	135.6	69.3	1 255.8
Portion in Pennsylvania -----	-	6 390	2 391	384.5	5 457.7	247.5	480.5	2 977.7	11 537.3	14 774.4	26 189.7	587.8	426.3	7 934.1
Pittsburgh -----	-	2 662	957	239.7	4 037.5	153.9	294.0	2 311.5	6 478.4	9 144.9	15 480.5	558.0	262.8	4 163.9
Reading -----	-	667	309	50.1	623.6	37.7	73.7	416.5	1 378.8	1 542.4	2 894.9	85.1	51.8	865.4
Williamsport -----	-	202	95	17.5	202.7	13.2	25.2	136.4	515.4	452.8	958.0	(D)	18.7	306.6
York -----	-	734	342	59.0	716.0	45.3	88.2	471.5	1 517.5	1 579.0	3 041.0	86.7	56.8	865.7
COUNTIES														
Adams -----	-	129	57	6.9	60.1	5.6	10.8	42.6	152.6	200.2	352.1	7.2	6.7	92.7
Allegheny -----	-	1 736	586	150.3	2 629.1	87.0	165.4	1 307.1	3 957.1	5 822.9	9 676.7	226.1	169.8	2 402.3
Armstrong -----	-	79	34	4.9	63.1	3.9	7.6	45.2	133.0	116.9	247.8	8.1	4.2	87.3
Beaver -----	-	186	77	35.7	628.8	27.9	53.9	476.9	987.2	1 502.3	2 468.2	138.4	36.5	734.4
Bedford -----	-	50	18	2.0	21.5	1.5	2.9	14.8	53.5	95.1	144.4	3.4	2.5	37.3
Berks -----	-	667	309	50.1	623.6	37.7	73.7	416.5	1 378.8	1 542.4	2 894.9	85.1	51.8	865.4
Blair -----	-	147	63	12.1	134.6	9.6	17.9	96.3	340.8	315.9	648.0	23.5	15.6	234.9
Bradford -----	-	79	31	6.0	73.5	4.5	9.3	47.3	239.7	203.8	441.3	13.6	5.5	109.5
Bucks -----	-	1 046	388	49.2	696.2	35.3	69.6	440.3	1 394.8	1 738.0	3 120.6	73.9	46.3	860.4
Butler -----	-	200	85	14.1	222.8	10.7	20.8	155.7	472.0	685.0	1 150.1	49.8	13.2	241.8
Cambria -----	-	169	61	16.6	257.1	13.0	22.3	187.7	386.2	499.1	922.5	23.7	19.2	296.8
Cameron -----	-	23	7	1.2	14.6	1.0	2.0	11.5	27.2	14.0	41.1	1.9	1.5	23.2
Carbon -----	-	113	53	7.1	61.3	6.2	10.8	48.6	131.0	138.5	266.9	16.1	6.9	88.0
Centre -----	-	109	41	6.9	73.5	5.4	10.6	52.9	170.6	157.9	325.8	6.8	6.7	127.1
Chester -----	-	511	215	35.2	491.9	23.1	45.0	275.8	1 067.5	1 103.0	2 159.2	68.9	34.3	661.9
Clarion -----	E1	55	17	2.6	31.8	2.2	4.3	25.3	79.0	60.4	139.5	5.7	2.7	50.3
Clearfield -----	-	134	51	7.2	69.3	5.8	11.2	51.1	123.2	232.4	356.2	7.9	5.7	82.2
Clinton -----	-	50	22	6.1	72.0	5.0	9.8	53.8	111.2	177.4	279.2	12.0	6.2	75.3
Columbia -----	-	128	62	8.5	82.7	6.9	13.2	59.7	168.0	204.3	368.0	8.1	11.7	149.7
Crawford -----	-	188	69	10.6	135.5	7.9	15.5	92.3	288.2	304.5	586.1	14.0	11.0	191.4
Cumberland -----	-	187	82	14.6	166.9	10.6	20.9	110.4	454.8	589.3	1 038.4	23.8	15.1	254.6
Dauphin -----	-	270	110	24.8	342.2	16.1	29.7	187.0	697.0	818.9	1 506.3	42.4	24.2	452.5
Delaware -----	-	559	187	44.8	720.3	25.0	48.3	343.6	1 806.0	2 864.3	4 680.1	96.4	40.2	946.4
Elk -----	-	87	32	8.0	100.6	6.2	12.0	70.0	191.2	159.4	343.2	13.8	8.4	143.7
Erie -----	-	510	209	42.0	600.7	29.0	55.8	356.5	1 254.8	1 093.8	2 323.7	76.3	42.5	764.8
Fayette -----	-	143	45	7.8	87.5	6.3	11.1	64.8	182.0	181.8	362.3	11.6	8.0	117.8
Forest -----	-	6	3	0.5	5.8	0.5	0.9	5.0	14.9	12.0	26.6	0.5	0.6	11.1
Franklin -----	-	156	69	14.6	155.9	11.3	20.5	107.7	302.7	293.8	502.8	12.4	13.0	200.1
Fulton -----	-	19	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	6.0
Greene -----	E2	33	9	0.7	5.3	0.5	0.8	3.8	9.1	18.1	26.7	0.3	(D)	(D)
Huntingdon -----	-	53	15	3.2	32.1	2.7	4.8	25.4	79.9	55.0	136.7	5.4	3.9	51.4
Indiana -----	-	84	28	6.3	75.1	4.4	8.7	46.8	167.6	160.9	332.2	9.9	5.3	87.5
Jefferson -----	-	99	39	6.3	66.0	4.9	9.1	43.8	114.3	92.3	206.8	12.3	5.0	58.9
Juniata -----	-	52	14	1.9	15.4	1.7	3.0	11.3	30.2	44.8	74.6	1.0	1.7	17.3
Lackawanna -----	-	499	258	26.1	257.4	20.8	37.6	181.4	452.0	504.5	944.4	44.1	30.3	352.2
Lancaster -----	-	770	340	56.4	693.6	41.0	80.0	425.4	1 492.5	1 852.1	3 304.8	117.7	53.0	953.0
Lawrence -----	-	169	68	9.7	130.5	7.3	14.0	90.0	285.6	300.0	583.3	23.7	10.8	172.4
Lebanon -----	-	195	106	14.2	166.3	11.2	20.8	117.1	423.3	482.2	884.7	22.5	13.8	245.5
Lehigh -----	-	489	245	47.8	699.6	30.2	58.1	352.5	1 241.2	1 626.0	2 851.1	52.1	47.1	666.6
Luzerne -----	-	670	358	40.5	379.3	32.4	57.8	269.0	773.1	715.6	1 458.7	44.1	47.3	599.4
Lycoming -----	-	202	95	17.5	202.7	13.2	25.2	136.4	515.4	452.8	958.0	(D)	18.7	306.6
McKean -----	-	94	39	7.0	83.0	5.4	10.6	56.8	159.1	247.1	403.2	11.4	7.3	111.7
Mercer -----	-	157	61	16.1	246.1	12.2	24.5	177.0	566.7	725.5	1 281.4	39.6	18.8	375.6
Mifflin -----	-	56	25	6.2	79.0	5.1	9.8	59.9	132.9	224.9	355.0	9.8	7.1	86.5
Monroe -----	-	97	48	4.3	48.3	3.2	6.0	31.8	102.7	73.8	179.9	5.3	5.2	72.7
Montgomery -----	-	1 458	554	97.8	1 444.9	57.7	112.5	706.8	3 141.3	2 710.8	5 799.1	148.3	105.1	2 159.1
Montour -----	-	17	10	2.3	31.2	1.8	3.7	23.1	147.5	81.7	231.0	5.1	2.8	53.2
Northampton -----	-	427	247	39.3	497.0	30.8	54.9	349.7	936.7	817.0	1 735.9	65.2	41.9	701.8
Northumberland -----	-	158	87	13.2	127.9	10.9	19.4	95.6	264.2	408.6	669.6			

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Places: 1977 and 1972—Con.

[Includes places with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972		
	E ¹	All establishments ²		All employees ²		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
COUNTIES—Con.														
Potter	-	44	12	0.9	7.9	0.8	1.5	6.1	18.4	12.8	31.0	2.0	0.8	8.1
Schuylkill	-	294	173	20.3	167.5	16.9	30.6	124.8	342.7	391.3	749.5	16.7	22.9	249.7
Snyder	E1	66	37	3.4	30.3	2.9	5.3	23.1	52.4	64.0	115.7	2.5	3.2	38.8
Somerset	E1	124	40	4.2	33.7	3.7	6.8	26.5	77.3	94.0	169.7	3.5	3.9	40.2
Sullivan	-	20	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	4.7
Susquehanna	E1	63	21	2.2	19.3	1.9	3.6	14.4	34.6	28.2	62.1	(D)	2.1	21.6
Tioga	-	48	13	2.3	25.3	1.9	3.7	19.2	61.5	86.4	146.4	2.3	2.5	48.0
Union	-	35	16	2.8	27.7	2.4	4.7	20.9	66.1	76.6	141.9	(D)	2.7	40.0
Venango	-	92	37	8.3	123.0	5.4	10.5	81.2	239.3	424.0	662.5	19.8	7.2	132.9
Warren	-	101	39	5.9	77.4	4.2	8.4	49.0	179.5	416.3	587.7	13.3	5.5	99.2
Washington	-	243	109	19.0	275.8	14.6	28.3	202.1	592.1	944.8	1 526.2	27.8	19.0	365.8
Wayne	-	71	20	2.4	20.1	2.1	3.7	14.9	51.9	73.4	123.1	3.7	2.3	41.6
Westmoreland	-	497	185	34.7	503.8	24.3	46.4	325.4	942.0	874.9	1 809.4	165.8	37.4	661.4
Wyoming	-	47	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
York	-	605	285	52.2	655.9	39.7	77.4	428.9	1 364.9	1 378.9	2 688.9	79.5	50.0	772.9
PLACES														
Abington twp	E2	44	9	0.5	6.9	0.3	0.5	2.6	9.9	7.7	17.5	0.4	(D)	(D)
Aliquippa	-	17	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Allentown	-	260	128	25.1	366.4	18.6	36.5	237.5	800.2	1 029.1	1 823.6	32.8	29.1	488.3
Altoona	-	58	27	6.1	62.2	4.7	8.7	43.1	165.8	130.8	293.5	8.9	7.7	107.8
Ambler	-	22	8	0.6	8.0	0.4	0.8	4.6	13.1	14.7	27.9	0.5	0.7	10.6
Ambridge	-	16	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.1	70.6
Archbald	-	16	9	1.9	24.1	1.7	3.1	20.0	32.8	43.2	73.5	(D)	2.0	21.8
Ashland	-	10	6	0.9	8.4	0.7	1.4	5.9	15.9	15.5	28.9	(D)	0.7	8.0
Aston twp	-	19	9	0.8	10.7	0.3	0.6	3.0	43.2	59.4	91.5	1.0	(D)	(D)
Athens	-	5	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Avoca	-	9	6	0.5	3.0	0.4	0.7	2.5	7.4	7.7	14.9	(D)	0.5	2.9
Baldwin	-	9	2	0.6	11.6	0.1	0.2	1.4	7.9	3.6	11.4	0.3	(D)	(D)
Bangor	-	37	20	1.8	16.8	1.5	2.7	13.2	41.9	48.9	89.1	1.0	1.7	32.0
Beaver Falls	-	26	9	6.4	114.0	4.9	9.8	86.0	121.9	268.9	377.4	(D)	6.1	103.2
Bellefonte	-	16	8	2.1	27.6	1.7	3.7	22.2	56.1	66.4	120.8	2.4	1.8	34.3
Bensalem	E1	172	62	5.5	79.5	3.2	6.3	33.3	136.7	161.0	297.1	5.8	3.6	68.7
Berwick	-	46	22	4.4	45.0	3.5	6.4	31.9	101.3	119.8	216.2	3.8	5.6	78.6
Bethel Park	E2	43	7	0.5	6.3	0.4	0.8	4.3	11.2	11.6	22.9	0.7	(NA)	(NA)
Bethlehem	-	97	56	23.0	390.2	13.6	24.3	197.1	538.8	492.0	1 017.4	(D)	23.1	377.6
Birdsboro	E1	19	7	1.1	13.1	0.9	1.6	8.4	24.9	37.1	62.5	1.7	1.0	13.1
Blairsville	-	23	6	1.2	16.2	1.0	2.1	12.1	46.9	56.1	101.9	(D)	0.8	17.7
Bloomsburg	-	35	17	2.1	20.1	1.7	3.7	14.3	35.5	51.2	87.0	1.1	4.0	40.3
Boyetown	-	44	18	3.2	34.2	2.6	4.9	26.4	62.5	55.9	118.5	2.4	3.4	45.5
Brackenridge	-	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Braddock	-	15	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	36.8
Bradford	-	33	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2	69.8
Bridgeport	E1	35	11	0.7	8.0	0.6	1.1	5.6	14.3	10.7	25.1	0.7	1.8	27.8
Bridgeville	-	20	7	1.4	24.3	1.1	1.9	17.8	30.4	74.8	104.1	(D)	0.5	11.6
Bristol	-	41	18	2.3	29.2	1.7	3.3	18.6	108.3	119.5	226.8	3.1	3.4	79.6
Bristol twp	-	79	34	4.4	54.4	3.1	6.0	32.6	145.0	172.1	316.7	18.3	3.3	64.4
Brockway	-	7	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	14.1
Brookville	-	27	9	0.9	8.8	0.8	1.4	6.9	22.5	21.2	43.7	1.8	0.5	7.8
Brownsville	-	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Burnham	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Butler	-	51	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.3	121.2
Canonsburg	-	34	14	3.2	43.9	2.2	5.0	31.3	93.0	71.5	165.9	2.4	4.3	68.3
Carbondale	E2	31	24	1.8	15.8	1.4	2.4	10.9	32.1	40.9	73.0	(D)	1.5	22.1
Carlisle	-	40	20	6.7	77.9	5.1	10.4	57.0	181.9	144.3	325.7	7.5	6.3	93.3
Carnegie	E1	30	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	21.7
Catasauqua	-	12	7	0.6	7.1	0.5	0.9	5.3	13.7	12.1	25.5	0.3	1.5	20.2
Chambersburg	-	48	23	4.9	48.6	4.1	6.9	35.9	120.2	115.1	233.9	4.6	5.2	81.3
Charlertoi	-	8	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cheltenham twp	E4	46	6	0.5	5.4	0.4	0.7	3.6	10.5	10.4	20.8	(D)	0.5	8.5
Chester	-	57	30	9.7	145.9	7.1	12.9	101.6	341.1	340.4	687.2	21.6	4.7	120.3
Cheswick	-	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Churchill	E0	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Clairton	-	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Clarion	-	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	27.5
Clearfield	-	28	13	1.9	19.4	1.6	3.0	14.9	36.0	21.2	56.6	1.8	1.6	14.9
Clifton Heights	-	25	8	1.1	10.6	0.9	1.7	7.1	21.0	13.8	34.2	0.6	1.2	13.8
Coatesville	-	36	14	4.8	90.7	2.9	5.7	50.4	165.2	138.3	305.0	(D)	(D)	(D)
Collegeville	E2	17	6	0.9	10.9	0.7	1.3	7.0	21.8	17.4	38.4	1.3	(NA)	(NA)
Columbia	E1	39	19	2.7	27.5	2.3	4.2	21.4	49.2	82.7	129.9	4.7	2.9	34.9
Connellsville	-	19	8	0.6	5.6	0.5	0.8	3.9	9.4	6.1	15.0	0.9	0.8	6.0
Conshohocken	-	44	19	2.9	38.7	2.0	3.9	24.6	112.5	191.5	294.4	4.0	3.8	101.0
Coraopolis	-	27	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	28.5
Corry	-	25	14	2.6	32.9	2.0	4.0	22.7	76.8	62.2	131.4	6.2	2.3	36.5
Curwensville	-	11	5	1.4	14.4	1.1	2.1	10.3	11.9	105.1	117.0	1.1	1.4	25.8
Dallastown	-	13	7	0.6	6.1	0.5	0.9	4.4	8.9	6.3	15.9	0.3	(NA)	(NA)
Danville	-	16	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	53.2
Derry	-	9	4	0.7	9.0	0.5	1.0	6.5	12.9	8.1	21.6	(D)	(D)	(D)
Derry twp	-	13	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dickson City	E1	24	11	0.8	5.4	0.7	1.0	4.1	7.7	4.9	12.6	(D)	0.7	4.9
Donora	-	13	6	0.5	5.6	0.4	0.7	3.7	19.3	24.9	36.6	1.1	0.5	6.4
Downingtown	-	31	12	3.6	49.7	2.7	5.5	33.8	98.8	152.1	250.5	4.9	3.3	58.4
Doylestown	E1	44	11	1.6	17.0	1.2	2.6	11.6	33.6	30.0	63.2	1.8	1.7	19.6

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Places: 1977 and 1972—Con.

[Includes places with 450 manufacturing employees or more. For definitions of SCSSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972		
	E ¹	All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
PLACES—Con.														
Dravosburg	-	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Du Bois	-	35	13	2.1	18.6	1.7	3.3	13.4	40.6	54.5	96.7	2.2	0.5	6.4
Dunmore	-	28	17	1.6	15.4	1.2	2.2	10.8	34.1	30.4	61.2	(D)	4.3	88.5
Duquesne	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Duryea	-	9	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	37.0
East Hempfield twp	-	37	19	2.3	28.7	1.6	3.2	17.0	62.8	156.1	217.3	5.3	0.7	15.9
Easton	-	57	21	2.6	25.7	1.7	2.9	12.7	45.8	43.4	88.0	5.7	5.9	85.0
East Pittsburgh	-	3	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
East Stroudsburg	-	25	16	1.9	24.2	1.4	2.6	16.1	65.8	40.7	106.1	2.5	1.9	37.1
Edgewood	-	2	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Elizabethtown	-	23	8	1.2	15.0	0.9	1.6	9.4	37.7	82.5	116.1	9.6	1.4	15.7
Ellwood City	-	24	12	1.6	23.7	1.2	2.3	15.2	61.8	61.9	126.6	7.6	(D)	(D)
Emmaus	-	25	13	1.7	16.1	1.1	2.0	8.7	41.1	35.3	76.2	2.8	2.0	26.0
Emporium	-	20	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Ephrata	-	33	23	3.2	26.6	2.4	4.2	17.6	41.4	44.4	85.3	2.0	3.3	40.2
Erie	-	240	94	16.4	241.0	11.5	22.2	147.4	430.6	432.9	870.2	28.6	18.1	306.4
Exeter	-	13	8	0.9	7.5	0.8	1.8	6.1	10.0	27.1	37.4	(D)	1.3	11.2
Exeter twp	-	8	5	0.5	4.8	0.5	0.8	3.5	11.2	10.3	21.1	0.4	(NA)	(NA)
Falls twp	-	37	22	9.6	186.1	7.5	14.3	141.4	331.7	654.8	982.4	13.7	(D)	(D)
Farrell	-	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Fleetwood	-	18	8	1.1	11.3	0.9	1.9	9.1	40.9	30.5	70.6	1.4	0.9	14.6
Folcroft	-	32	18	1.4	16.3	1.0	1.9	9.9	44.1	94.9	139.2	2.3	1.1	19.3
Ford City	-	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Fountain Hill	E2	12	5	0.6	4.7	0.6	1.1	3.7	7.5	8.2	15.8	0.3	(D)	(D)
Franklin	-	35	12	4.7	69.5	2.8	5.5	44.1	154.3	155.5	306.5	7.9	3.9	72.3
Freeland	E1	11	7	0.5	3.7	0.4	0.7	2.9	5.9	3.4	9.5	0.4	0.6	4.8
Gettysburg	E1	38	12	0.9	7.8	0.7	1.3	5.2	19.0	36.6	55.4	0.6	1.3	14.7
Glassport	-	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Greencastle	-	23	11	0.9	6.8	0.7	1.4	5.6	16.3	25.6	42.3	2.9	1.1	10.2
Greensburg	-	68	21	1.5	19.4	1.1	2.1	12.2	38.1	27.5	65.5	2.1	1.9	30.9
Greenville	-	24	6	1.7	26.0	1.3	2.4	18.6	55.9	100.1	157.5	2.4	2.2	40.7
Grove City	-	23	6	1.7	23.3	1.3	2.9	17.8	64.3	46.5	111.8	(D)	1.9	19.9
Hamburg	-	35	22	2.3	24.9	1.9	3.7	18.7	57.7	90.6	147.6	3.1	2.1	37.8
Hanover twp	-	26	10	1.1	10.3	1.0	1.7	8.5	22.2	15.1	37.8	0.7	1.4	12.1
Hanover	-	85	43	6.1	59.8	5.0	9.7	44.3	114.7	122.6	236.1	6.3	6.4	88.2
Harrisburg	-	87	34	5.0	63.3	3.3	6.3	38.1	149.3	110.8	256.0	7.8	6.3	118.3
Hatboro	-	47	13	1.3	14.8	1.1	2.1	11.4	87.4	32.0	119.1	1.3	1.4	65.2
Hatfield twp	-	16	11	0.7	9.0	0.4	0.8	5.1	22.5	16.3	38.2	(D)	(NA)	(NA)
Haverford twp	E1	19	1	0.9	7.3	0.7	1.4	4.7	12.7	5.2	17.6	0.3	0.6	6.8
Hazleton	-	94	49	5.2	47.7	4.3	7.4	35.6	80.6	103.2	187.7	5.2	5.8	84.5
Hellertown	-	8	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hempfield twp	-	13	6	0.7	6.8	0.5	1.0	5.1	11.2	20.1	31.4	0.3	0.5	5.7
Honesdale	-	22	10	1.3	12.7	1.1	2.0	9.1	37.3	56.3	91.8	(D)	1.4	25.6
Horsham twp	-	45	22	2.5	34.6	1.1	2.3	12.7	64.5	58.4	118.6	5.3	1.0	14.7
Huntingdon	-	16	7	1.4	15.0	1.2	2.4	12.3	37.5	24.9	63.0	(D)	1.9	24.6
Indiana	-	31	9	2.0	22.6	1.5	2.8	15.1	38.7	52.0	92.6	(D)	1.0	18.5
Irwin	E1	22	6	0.5	7.0	0.3	0.6	3.9	13.1	9.9	23.3	0.5	1.0	12.6
Jeannette	-	30	13	5.3	75.5	3.4	6.8	43.9	168.5	88.8	258.9	8.5	5.2	93.3
Jenkintown	-	29	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Johnsonburg	-	11	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Johnstown	-	52	24	13.3	228.0	10.2	17.4	166.9	328.7	428.0	796.7	20.1	16.2	260.8
Kane	-	21	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kennett Square	-	28	9	1.1	11.7	0.9	1.6	8.2	26.5	36.8	63.1	1.6	0.9	14.5
Kingston	-	23	10	1.2	10.1	1.0	1.8	7.1	21.6	21.3	43.1	0.3	2.6	25.9
Kittanning	-	18	11	1.0	9.4	0.9	1.6	6.8	15.7	21.3	37.3	1.8	0.8	12.9
Kutztown	-	21	10	1.3	10.9	1.1	2.1	8.3	19.2	13.5	31.1	1.1	1.4	11.9
Lancaster	-	150	64	15.2	206.4	11.3	22.5	131.6	449.5	384.4	828.1	49.6	8.7	163.7
Lansdale	E1	82	29	5.0	67.1	3.7	7.4	43.3	138.6	261.4	401.1	3.8	5.8	102.5
Lansford	-	14	6	0.6	4.5	0.6	1.0	3.2	10.1	6.9	16.8	(D)	0.6	5.8
Latrobe	-	39	17	4.5	73.5	2.8	5.4	44.3	166.2	159.8	328.5	9.9	5.0	96.4
Lebanon	-	76	48	7.0	84.3	5.3	9.5	58.6	163.7	204.8	359.3	8.8	7.2	83.8
Lehighton	-	32	10	1.7	12.4	1.5	2.6	10.0	16.8	9.9	26.6	0.7	1.4	10.6
Lewisburg	-	14	6	1.5	14.7	1.2	2.6	10.6	27.9	32.0	58.8	(D)	1.6	27.0
Lewistown	-	29	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.5	33.7
Lititz	-	38	15	2.9	30.3	2.2	4.7	21.1	123.4	154.6	273.9	2.1	2.1	94.8
Littlestown	E1	22	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lock Haven	-	22	10	4.3	53.9	3.4	6.7	40.0	72.1	117.3	184.5	(D)	3.7	38.5
Lower Allen twp	-	9	6	1.2	11.2	0.5	0.8	4.0	25.9	103.0	127.4	1.1	(NA)	(NA)
Lower Merion twp	E1	71	11	1.4	17.6	0.5	0.9	5.4	17.7	15.8	33.8	0.9	5.5	68.9
Lower Moreland twp	-	80	23	2.0	27.4	1.5	3.0	18.4	52.2	44.1	95.2	3.2	1.7	25.6
Lower Providence twp	-	19	9	2.1	28.9	1.4	3.0	18.7	49.7	28.3	76.0	2.1	1.5	21.7
Lower Southampton twp	E1	61	16	1.1	15.1	0.8	1.7	9.1	28.9	23.7	52.4	1.8	(D)	(D)
Loyalsock twp	-	11	8	0.8	10.9	0.4	1.3	4.3	18.4	23.1	42.0	0.6	(NA)	(NA)
Lykens	-	8	4	0.6	7.9	0.5	1.0	5.1	14.9	9.2	23.9	0.2	0.6	8.5
McAdoo	E1	6	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	5.1
McKeesport	-	29	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	42.9
McKees Rocks	-	22	10	1.6	21.8	1.1	2.3	14.9	37.1	23.7	60.6	1.3	(D)	(D)
McSherrystown	-	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mahanoy City	-	7	6	0.8	5.5	0.8	1.3	4.8	8.6	4.9	13.3	0.1	(D)	(D)
Malvern	E2	24	10	0.5	7.5	0.3	0.5	2.9	11.0	9.3	20.3	0.5	(D)	(D)
Manheim	-	30	11	2.0	24.2	1.5	2.7	17.2	61.3	51.4	112.0	2.2	2.3	36.5
Manheim twp	-	51	24	4.3	69.7	2.2	4.6	30.4	128.3	220.5	341.7	9.5	2.6	41.3
Manor twp	E0	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Places: 1977 and 1972—Con.

Includes places with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area		1977										1972			
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (milli- ons)	Wages (million dollars)							
PLACES—Con.															
Marcus Hook	-	5	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Marietta	-	12	4	0.7	7.9	0.6	1.1	6.5	25.8	21.4	47.2	(D)	(D)	(D)	(D)
Marple twp	E1	35	10	0.6	7.6	0.5	0.9	4.6	17.8	13.2	30.9	0.9	0.6	10.3	
Meadville	-	74	22	4.8	58.7	3.4	6.8	38.0	96.4	79.8	175.6	4.7	6.2	107.7	
Mechanicsburg	-	29	16	1.8	19.6	1.3	2.7	13.2	47.5	61.0	108.6	2.6	1.8	36.7	
Middletown	-	10	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	31.0	
Middletown twp	-	20	8	2.9	54.5	1.9	3.2	24.9	117.9	128.1	246.3	(D)	2.0	66.3	
Midland	-	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Mifflinburg	-	8	5	0.6	4.8	0.6	1.1	4.1	8.3	10.6	19.4	(D)	(D)	(D)	
Millcreek twp	-	107	42	5.1	75.4	3.0	5.9	35.8	150.4	116.0	265.0	7.9	4.4	72.8	
Millersburg	-	15	7	1.6	12.3	1.4	2.7	10.1	22.3	16.5	38.0	0.4	1.9	15.6	
Milton	-	21	15	3.8	48.7	3.1	6.3	37.6	117.1	184.0	302.2	3.1	3.7	63.2	
Monaca	-	20	13	4.5	67.6	3.3	6.1	45.2	119.6	250.3	378.5	(D)	4.3	77.8	
Monessen	-	8	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Monongahela	-	11	4	0.8	11.2	0.6	1.2	9.1	18.6	20.5	39.0	0.9	0.9	16.9	
Monroeville	E2	27	8	0.6	7.1	0.2	0.4	2.0	10.3	9.6	19.9	0.4	(NA)	(NA)	
Montoursville	-	16	7	2.5	27.3	2.2	3.9	22.2	80.5	43.2	128.4	0.7	2.2	58.9	
Moosic	-	14	9	0.6	6.8	0.4	0.9	4.0	14.6	22.2	37.2	2.3	1.5	17.5	
Morrisville	-	27	11	1.3	16.0	1.0	2.0	11.5	54.2	66.2	121.6	2.2	2.0	39.1	
Mount Carmel	E1	15	7	0.6	3.7	0.6	0.8	3.1	5.8	4.4	10.2	0.2	1.0	8.6	
Mount Joy	-	18	9	1.3	13.0	1.1	2.1	9.9	56.2	61.1	115.4	2.2	1.6	50.3	
Mount Pleasant twp	-	9	6	1.3	16.1	1.1	2.0	12.4	28.6	22.5	50.5	1.5	0.9	10.5	
Mount Union	-	7	3	0.5	6.0	0.4	0.8	5.1	13.8	4.9	19.8	(D)	1.3	13.3	
Muhlenberg twp	-	35	24	6.4	98.8	4.2	8.3	56.3	210.5	208.4	413.9	21.2	1.9	35.7	
Muncy	-	6	4	1.5	18.3	0.8	1.6	9.2	40.1	32.0	71.7	(D)	1.8	28.0	
Munhall	-	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Myerstown	-	25	11	2.2	27.4	1.7	3.2	19.7	125.4	51.4	179.1	5.2	2.3	103.5	
Nanticoke	E1	11	7	0.5	4.0	0.5	0.8	2.9	8.8	13.1	22.1	0.1	0.6	4.1	
Nazareth	-	43	22	2.6	28.6	2.1	3.8	19.3	45.6	45.5	92.9	(D)	3.1	46.1	
Nesquehoning	-	14	7	0.6	5.3	0.5	0.9	3.6	15.5	14.6	30.3	(D)	0.7	9.2	
New Brighton	E1	22	9	0.5	6.5	0.4	0.8	4.3	12.9	12.9	25.5	0.8	0.5	6.6	
New Castle	-	81	33	5.4	77.9	4.0	7.7	52.8	155.6	163.6	315.0	11.2	5.4	87.2	
New Holland	-	25	13	5.2	78.8	2.9	6.1	35.3	138.7	155.2	284.4	6.5	3.8	62.5	
New Kensington	E1	31	9	0.9	9.8	0.8	1.4	7.6	19.7	27.4	48.4	0.8	1.9	14.5	
Norristown	-	73	25	2.9	33.7	1.7	3.5	18.0	89.5	73.6	162.5	10.7	3.6	80.7	
Northampton	-	21	14	2.5	23.4	2.2	3.8	19.1	37.3	33.1	70.5	1.0	2.3	27.7	
North East	-	17	7	1.2	15.9	0.8	1.7	9.7	44.4	50.5	98.3	2.0	1.2	33.1	
North Huntingdon twp	E1	22	8	0.7	8.5	0.4	0.8	4.9	16.5	15.8	32.2	0.9	(NA)	(NA)	
North Union twp	-	6	4	0.7	8.6	0.6	1.1	6.4	17.3	20.7	37.9	0.3	(NA)	(NA)	
North Versailles	-	12	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
North Wales	-	27	13	3.6	54.9	1.8	3.4	21.7	102.8	56.4	159.7	5.5	3.8	67.5	
Oakmont	-	30	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	32.3	
Oil City	-	27	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Old Forge	-	29	16	1.1	8.0	0.9	1.5	5.7	17.1	13.2	30.3	1.0	1.4	12.6	
Olyphant	-	14	9	0.8	6.9	0.8	1.4	5.8	10.6	11.0	21.6	0.9	0.8	5.3	
Orwigsburg	-	16	10	0.9	6.5	0.8	1.4	5.4	10.2	8.5	18.7	0.2	1.3	10.7	
Palmer twp	-	8	5	1.1	13.4	0.7	1.5	8.0	29.4	24.0	53.6	1.0	1.2	21.0	
Palmerton	-	20	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Palmyra	-	19	8	0.9	7.8	0.8	1.6	6.2	15.5	19.4	35.0	0.2	(D)	(D)	
Pen Argyl	-	32	20	1.3	9.3	1.2	2.1	7.9	15.5	14.1	30.1	0.2	2.1	17.6	
Penn Hills twp	E3	30	7	0.7	9.3	0.4	0.8	5.6	15.3	26.3	42.7	0.5	0.6	10.5	
Perkasie	-	34	15	1.7	17.9	1.4	2.5	13.6	27.5	39.7	67.4	1.6	1.9	25.7	
Philadelphia	-	2 816	1 047	157.5	2 104.5	106.5	205.1	1 211.2	4 127.7	6 358.4	10 430.7	200.3	(NA)	(NA)	
Phoenixville	-	35	14	1.9	26.0	1.4	2.7	17.4	43.6	51.2	96.4	1.2	2.8	40.4	
Pittsburgh	-	719	240	55.3	1 025.8	22.9	43.3	314.8	1 030.1	1 067.0	2 060.0	54.5	62.3	685.3	
Pittston	E2	43	25	1.5	9.0	1.4	2.4	7.6	11.7	4.5	16.4	0.2	1.8	10.8	
Plains twp	E2	14	10	0.6	5.0	0.6	1.0	3.9	9.2	13.8	22.9	0.1	1.1	14.9	
Plum	-	16	7	1.1	15.8	0.7	1.4	6.2	28.1	26.5	54.7	1.1	(NA)	(NA)	
Plymouth	-	12	10	0.6	4.5	0.5	0.9	3.6	10.2	6.2	16.4	(D)	0.6	3.9	
Plymouth twp	-	34	16	1.9	25.8	1.2	2.1	12.6	52.1	44.8	94.7	2.1	5.2	103.6	
Portage	-	13	6	0.6	4.9	0.5	1.0	3.9	8.0	6.8	14.8	0.8	0.5	5.8	
Port Allegany	-	13	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Port Carbon	-	8	4	0.7	6.2	0.6	1.0	4.5	11.7	14.5	25.3	(D)	0.7	8.3	
Pottstown	-	79	32	5.2	76.6	3.6	7.1	47.2	176.1	179.5	353.6	8.9	7.3	147.7	
Pottsville	-	35	19	1.7	14.5	1.4	2.5	10.8	36.5	50.5	87.3	1.5	2.2	23.8	
Punxsutawney	-	26	12	1.7	12.6	1.5	2.9	10.7	23.1	28.4	51.7	(D)	1.1	11.8	
Quakertown	-	64	23	2.0	21.0	1.6	3.1	15.0	44.2	39.9	83.1	1.1	3.1	41.4	
Radnor twp	-	42	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Reading	-	226	92	17.5	247.6	12.6	24.5	162.8	549.7	607.4	1 146.7	29.4	24.2	487.4	
Red Lion	-	44	12	1.6	17.6	1.2	2.4	12.0	34.7	52.5	87.9	3.3	1.8	20.2	
Ridgway	-	19	10	1.2	13.0	0.9	1.8	9.3	26.7	27.2	54.4	1.5	1.0	13.4	
Ridley twp	-	23	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Roaring Spring	-	6	6	0.9	12.9	0.7	1.4	9.2	30.5	32.3	58.9	(D)	(D)	(D)	
Rochester	-	16	5	0.6	7.4	0.4	0.8	5.1	14.4	13.4	26.8	0.4	0.7	13.7	
Royersford	-	17	8	1.1	14.8	0.9	1.9	11.0	29.7	27.0	56.8	1.0	1.5	21.9	
St. Marys	-	32	12	5.2	65.3	3.9	7.4	44.2	121.9	84.5	200.2	8.8	5.7	108.4	
Sayre	-	12	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	8.6	
Schuylkill Haven	-	30	18	2.3	15.9	1.6	2.9	10.0	25.5	40.0	64.1	0.9	2.7	24.1	
Scottdale	-	25	8	1.2	12.5	0.8	1.5	7.3	20.0	22.2	42.4	1.0	1.1	12.4	
Scranton	E1	221	103	10.9	103.0	8.7	15.6	71.2	168.2	168.3	331.9	8.3	14.0	139.9	
Selinsgrove	-	18	12	0.8	5.6	0.7	1.1	4.3	9.2	14.0	23.3	0.5	0.8	9.9	
Sellersville	-	20	8	2.2	29.3	1.7	3.8	21.5	54.1	27.2	80.0	1.8	1.8	32.3	
Shaler twp	-	32	10	1.1	15.0	0.9	1.7	10.0	29.4	24.7	54.2	3.0	1.3	16.6	

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Places: 1977 and 1972—Con.

[Includes places with 450 manufacturing employees or more. For definitions of SCSSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972			
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)							
PLACES—Con.															
Shamokin-----	-	20	11	1.2	7.6	1.0	1.3	5.4	10.7	4.4	15.0	0.4	2.7	23.1	
Sharon-----	-	30	14	5.0	79.0	3.6	6.6	52.9	150.0	118.3	268.1	8.6	6.4	105.2	
Sharpsville-----	-	10	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Shenandoah-----	E1	23	13	0.9	6.0	0.8	1.3	4.7	9.5	3.3	12.8	0.3	1.1	7.1	
Shippensburg-----	-	16	13	2.0	18.8	1.6	3.0	14.0	39.2	36.4	74.0	1.8	2.2	28.6	
Sinking Spring-----	-	12	6	0.9	9.1	0.8	1.6	6.9	15.6	17.1	32.7	1.4	1.2	17.8	
Slatington-----	E1	13	8	0.9	8.0	0.8	1.4	6.0	12.2	12.0	23.9	0.5	0.9	9.9	
Somerset-----	-	17	9	1.1	9.0	0.9	1.9	7.1	26.3	40.0	65.4	1.0	1.1	15.9	
Souderton-----	E1	21	10	1.0	10.3	0.9	1.5	7.6	20.4	10.1	30.5	0.4	1.2	28.0	
South Greensburg-----	-	8	5	2.0	28.0	1.5	2.8	19.5	47.7	41.9	90.2	3.3	(D)	(D)	
South Whitehall twp-----	-	9	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	5.4	
Spring City-----	-	17	8	1.7	14.5	1.4	2.5	11.4	33.3	56.5	88.1	1.4	1.9	14.5	
Springdale-----	-	9	5	0.5	6.4	0.4	0.6	3.7	24.2	31.8	55.2	3.5	1.0	11.1	
Springettsbury twp-----	-	23	15	7.7	122.2	5.9	11.6	85.7	304.8	262.8	568.3	23.3	1.9	26.2	
Springfield twp-----	E1	39	10	0.6	7.7	0.4	0.7	3.7	13.5	13.7	27.7	0.6	0.7	12.5	
Spring Garden twp-----	-	26	17	1.8	20.4	1.4	2.6	13.1	46.3	55.6	100.2	1.5	1.5	26.9	
State College-----	-	34	13	1.2	14.0	0.8	1.5	8.3	38.0	21.4	57.9	1.8	1.6	43.8	
Steelton-----	-	9	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Stowe twp-----	-	12	9	1.1	16.2	0.7	1.3	8.9	40.8	46.7	86.7	2.9	1.1	20.3	
Stroudsburg-----	-	30	12	0.7	7.5	0.6	1.0	5.4	15.0	9.8	24.8	0.5	(D)	(D)	
Sunbury-----	-	36	16	2.1	21.5	1.4	2.8	12.8	39.4	52.2	91.6	1.7	2.3	29.8	
Susquehanna twp-----	-	12	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Swatara twp-----	-	29	12	3.7	65.6	0.6	1.2	5.7	23.2	25.5	47.1	1.2	(D)	(D)	
Swoyersville-----	-	19	12	1.1	9.2	1.0	1.7	7.8	16.4	14.3	30.2	0.2	0.8	7.3	
Tamaqua-----	-	26	13	2.5	24.8	1.9	3.4	16.7	57.4	50.9	107.7	4.3	2.1	24.9	
Tarentum-----	-	20	6	0.6	7.1	0.4	0.8	4.4	14.7	11.0	25.7	0.6	(NA)	(NA)	
Taylor-----	-	12	8	0.7	7.4	0.6	1.1	5.5	9.8	13.3	23.3	0.1	0.6	6.5	
Telford-----	E2	30	10	0.9	7.4	0.8	1.3	5.5	16.3	11.6	27.4	0.5	0.7	8.0	
Throop-----	-	10	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Titusville-----	-	21	12	1.5	22.8	1.3	2.5	18.3	46.3	91.5	135.3	1.7	2.0	36.5	
Trafford-----	-	5	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Tredyffrin twp-----	-	29	12	2.7	39.3	1.4	2.4	14.6	77.8	53.0	126.2	(D)	3.6	27.7	
Tyrone-----	-	16	5	0.9	9.0	0.8	1.4	7.8	20.8	33.5	53.1	0.7	1.3	22.1	
Union City-----	-	18	9	1.2	10.9	0.9	1.7	7.2	21.8	35.8	55.8	2.2	1.1	9.9	
Uniontown-----	-	38	12	2.1	24.1	1.5	2.8	15.4	57.4	53.4	110.9	2.2	2.1	38.7	
Upper Darby twp-----	-	59	11	1.3	14.0	0.9	1.7	8.3	27.8	21.5	49.3	2.0	0.9	14.2	
Upper Dublin twp-----	-	41	24	10.2	162.5	4.3	8.5	56.9	450.7	213.5	653.9	12.6	6.2	142.6	
Upper Merion twp-----	-	67	31	8.6	158.0	3.6	7.1	51.6	234.4	233.4	477.4	17.3	5.3	105.1	
Upper Moreland twp-----	E1	63	30	2.6	29.1	1.9	3.5	17.3	63.5	54.0	115.7	5.1	2.3	33.1	
Upper Southampton twp-----	E2	56	25	1.5	18.0	1.2	2.3	12.1	35.0	34.2	68.7	2.3	1.6	22.5	
Vandergrift-----	-	11	4	1.3	20.9	1.0	1.8	15.7	24.5	6.4	30.4	2.0	(D)	(D)	
Verona-----	-	17	9	1.0	12.4	0.6	1.2	7.3	21.0	25.4	45.8	0.9	1.1	15.4	
Warminster twp-----	-	59	22	5.6	77.8	3.7	8.0	42.8	149.8	102.7	250.6	6.3	4.5	78.1	
Warren-----	-	53	26	4.0	50.2	2.8	5.7	31.6	115.6	381.0	487.4	7.4	3.4	64.9	
Washington-----	-	55	25	4.1	56.5	3.3	6.1	42.5	128.6	193.0	318.5	5.2	5.0	85.5	
Watsonstown-----	-	9	6	1.9	17.2	1.8	2.9	15.5	33.7	56.1	86.2	2.3	1.2	12.9	
Waynesboro-----	-	33	17	3.8	43.7	2.7	5.6	28.4	78.9	51.0	127.2	3.5	3.4	43.5	
Weatherly-----	-	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Wellsboro-----	-	11	4	0.8	9.3	0.6	1.1	6.2	25.7	40.5	66.8	0.9	0.8	23.0	
West Chester-----	-	45	12	1.8	21.8	1.2	2.7	12.2	48.2	53.0	100.9	2.3	2.5	60.1	
West Goshen twp-----	-	35	16	3.3	38.5	2.5	4.7	26.3	87.8	94.0	180.9	9.0	1.5	23.1	
West Hazleton-----	-	17	14	3.2	33.9	2.5	4.9	25.5	86.0	130.4	215.3	4.8	3.3	51.2	
West Homestead-----	-	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
West Manchester twp-----	-	31	14	3.4	45.3	2.7	5.4	35.1	147.9	146.3	256.2	7.6	1.7	37.2	
West Mifflin-----	-	17	9	3.5	80.9	2.5	5.6	57.3	132.2	154.0	283.5	4.2	(D)	(D)	
West Norriton twp-----	-	15	4	1.1	15.5	0.7	1.3	6.5	37.9	21.2	58.7	0.5	(NA)	(NA)	
West Pittston-----	E2	23	8	0.6	6.7	0.5	1.0	4.7	12.5	8.8	21.5	0.5	1.6	23.6	
West Reading-----	-	15	8	1.4	11.3	1.2	2.3	8.8	28.3	24.3	51.6	1.2	1.0	14.0	
West York-----	-	10	7	1.4	15.7	1.1	2.2	11.7	27.4	19.0	46.2	0.6	0.8	11.2	
Whitehall-----	-	21	9	1.7	20.3	1.3	2.6	15.3	46.3	52.2	95.5	3.8	0.8	10.8	
Whitemarsh-----	-	29	10	1.3	20.7	0.8	1.6	8.0	32.6	33.2	65.9	1.9	7.6	100.0	
Wilkes-Barre-----	E2	141	75	8.3	73.4	6.4	10.9	48.3	124.4	103.5	226.0	12.7	10.7	123.5	
Williamsport-----	-	92	49	9.7	114.5	7.3	13.6	78.2	310.5	279.8	577.8	12.0	10.0	163.9	
Wilmerding-----	-	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Wilson-----	-	12	11	2.7	36.0	2.1	4.0	26.3	71.4	43.3	113.2	1.6	0.6	13.2	
Wrightsville-----	-	16	5	0.9	8.6	0.7	1.2	6.3	8.5	9.4	22.1	(D)	0.9	14.2	
Wyomissing-----	-	14	9	2.0	23.8	1.4	2.7	13.9	29.7	28.4	59.5	1.3	(NA)	(NA)	
York City-----	-	163	89	18.3	237.0	12.8	24.7	131.1	383.9	437.4	807.1	17.6	22.7	367.8	
Youngwood-----	-	11	9	1.2	16.1	0.9	1.7	9.7	27.7	32.1	60.9	0.9	1.2	24.8	
Zelienople-----	-	31	17	1.6	23.2	1.1	2.2	13.6	44.5	74.6	120.8	(D)	1.5	26.8	

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

(Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B)

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	All industries -----	-	18 735	7 704	1 329.2	18 042.7	934.1	1 781.6	10 948.8	36 016.9	44 393.0	79 844.8	2 297.4	1 417.5	23 518.5
20	Food and kindred products -----	-	1 579	623	92.3	1 142.0	63.7	125.3	698.9	3 204.9	6 322.5	9 508.3	238.8	99.1	2 077.4
201	Meat products -----	E1	259	110	14.9	181.7	11.9	23.2	128.5	378.4	1 641.9	2 011.3	35.6	13.4	220.8
2011	Meat packing plants -----	-	146	45	4.7	64.3	3.8	7.7	46.5	121.8	773.3	891.3	8.4	5.1	83.5
2013	Sausages and other prepared meats -----	-	86	44	5.6	77.7	4.1	7.8	52.1	187.1	594.9	779.7	21.2	4.9	95.6
2016	Poultry dressing plants -----	-	20	14	3.8	31.2	3.3	6.3	23.7	49.4	193.7	239.8	3.9	EE	(D)
2017	Poultry and egg processing -----	-	7	7	0.8	8.5	0.7	1.4	6.1	20.1	80.1	100.4	2.1	EE	(D)
202	Dairy products -----	-	256	95	9.6	122.6	5.0	10.8	57.7	274.1	897.9	1 169.7	19.8	14.5	295.8
2022	Cheese, natural and processed -----	-	23	8	1.5	16.1	1.2	2.3	12.0	12.7	171.0	183.5	2.1	EE	(D)
2023	Condensed and evaporated milk -----	-	9	5	0.2	3.0	0.2	0.4	2.2	20.6	63.6	84.3	(D)	0.5	7.9
2024	Ice cream and frozen desserts -----	-	41	13	2.0	26.8	1.2	2.5	14.2	71.7	135.5	206.6	5.6	2.0	55.5
2026	Fluid milk -----	E1	179	66	5.7	75.9	2.4	5.5	28.7	164.2	494.5	657.5	10.9	10.7	201.6
203	Preserved fruits and vegetables -----	-	109	57	12.3	134.2	9.9	18.8	97.9	444.3	727.2	1 173.3	17.7	13.7	304.0
2032	Canned specialties -----	-	11	5	3.6	44.6	3.0	5.9	35.0	148.1	188.3	335.1	4.3	FF	(D)
2033	Canned fruits and vegetables -----	-	42	22	4.0	35.2	3.4	6.7	26.9	114.7	220.2	338.3	6.9	4.4	85.3
2035	Pickles, sauces, and salad dressings -----	-	13	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2037	Frozen fruits and vegetables -----	-	8	7	0.7	6.6	0.6	1.1	4.9	15.6	36.3	51.9	0.7	BB	(D)
2038	Frozen specialties -----	-	34	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.5	69.0
204	Grain mill products -----	-	153	36	4.2	56.4	2.9	5.9	33.8	270.1	640.2	910.7	36.5	4.1	141.9
2041	Flour and other grain mill products -----	E4	36	4	0.3	4.6	0.3	0.5	2.9	12.6	65.9	78.5	0.3	BB	(D)
2043	Cereal breakfast foods -----	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2045	Blended and prepared flour -----	-	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2046	Wet corn milling -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2047	Dog, cat, and other pet food -----	-	19	9	1.4	19.9	0.9	2.0	11.6	105.9	153.7	259.6	4.1	EE	(D)
2048	Prepared feeds, n.e.c. -----	-	86	16	1.3	15.2	0.7	1.5	7.6	48.9	285.2	334.0	(D)	1.6	41.4
205	Bakery products -----	-	297	108	18.1	235.0	11.6	22.8	138.1	587.3	406.7	994.0	23.6	19.4	384.4
2051	Bread, cake, and related products -----	-	246	86	12.9	168.7	7.3	14.3	86.1	386.6	267.6	653.9	14.7	14.3	246.7
2052	Cookies and crackers -----	-	51	22	5.1	66.4	4.3	8.5	52.0	200.7	139.1	340.1	8.9	5.1	137.8
206	Sugar and confectionery products -----	-	141	57	15.3	180.0	11.3	21.7	121.0	511.0	873.8	1 380.3	50.1	15.1	326.9
2062	Cane sugar refining -----	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2065	Confectionery products -----	-	121	44	5.5	53.0	4.6	8.7	40.0	161.9	208.7	368.8	13.5	6.1	99.3
2066	Chocolate and cocoa products -----	-	13	8	5.7	76.3	3.8	7.2	46.4	239.5	442.9	678.7	(D)	5.9	140.6
2067	Chewing gum -----	-	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
207	Fats and oils -----	-	34	15	1.0	13.6	0.6	1.2	6.7	36.9	131.0	167.0	4.2	0.8	20.5
2077	Animal and marine fats and oils -----	-	28	12	0.8	10.9	0.4	1.0	5.3	30.5	81.5	111.2	3.6	CC	(D)
208	Beverages -----	-	181	85	9.2	136.6	5.0	10.0	65.6	429.4	547.6	973.3	35.3	10.9	243.5
2082	Malt beverages -----	-	14	9	2.6	41.5	2.0	3.7	30.9	167.3	162.3	329.0	(D)	3.8	89.3
2085	Distilled liquor, except brandy -----	-	7	5	1.1	14.4	0.9	1.8	11.0	60.9	73.5	134.2	1.6	EE	(D)
2086	Bottled and canned soft drinks -----	-	137	67	5.2	76.3	2.0	4.0	21.3	187.4	293.1	477.6	15.4	5.7	104.2
2087	Flavoring extracts and sirups, n.e.c. -----	E4	17	4	0.2	3.9	0.1	0.5	2.1	12.5	13.4	25.9	0.4	0.3	8.2
209	Miscellaneous foods and kindred products -----	-	149	60	7.8	82.0	5.6	10.8	49.6	273.4	456.1	728.8	16.0	7.1	139.6
2091	Canned and cured seafoods -----	-	3	2	0.2	1.9	0.1	0.3	1.4	0.3	8.4	8.8	(D)	(NA)	(NA)
2092	Fresh or frozen packaged fish -----	-	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2098	Macaroni and spaghetti -----	-	11	6	0.7	8.2	0.5	1.0	5.0	30.0	27.0	57.1	0.6	CC	(D)
2099	Food preparations, n.e.c. -----	-	102	46	6.0	62.9	4.2	8.2	36.8	189.6	249.5	438.3	10.7	5.0	100.2
21	Tobacco products ----	-	30	19	3.3	25.6	3.0	5.6	20.7	74.1	69.6	142.9	2.2	6.9	117.0
2121	Cigars -----	-	18	12	2.7	20.4	2.5	4.8	17.2	63.7	41.9	104.9	0.8	6.0	104.7
2141	Tobacco stemming and redrying -----	-	9	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
22	Textile mill products --	-	536	331	46.8	412.6	40.4	76.8	315.5	803.8	1 088.9	1 883.6	38.4	61.3	706.4
2221	Weaving mills, manmade fiber and silk -----	-	36	30	4.5	40.7	4.0	8.4	33.7	68.7	90.5	160.5	2.9	5.8	69.7
2231	Weaving and finishing mills, wool -----	-	13	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	13.9
2241	Narrow fabric mills -----	-	37	22	2.2	19.1	1.9	3.8	14.6	32.2	33.4	65.6	0.9	4.2	35.3
225	Knitting mills -----	E1	233	159	25.2	210.7	21.8	39.7	159.3	446.4	585.0	1 025.0	20.1	32.1	376.1
2251	Women's hosiery, except socks -----	E3	24	6	0.3	2.1	0.3	0.5	1.7	3.6	3.1	7.1	(D)	EE	(D)
2252	Hosiery, n.e.c. -----	-	13	5	1.3	10.4	1.0	1.9	7.4	18.1	18.4	36.4	0.3	2.1	23.3
2253	Knit outerwear mills -----	E2	84	67	12.6	99.9	10.9	19.1	73.9	206.8	202.8	406.0	5.8	13.6	144.2
2254	Knit underwear mills -----	-	34	29	4.5	31.9	3.9	7.0	25.3	63.6	85.0	147.5	3.5	FF	(D)
2257	Circular knit fabric mills -----	E1	45	28	3.5	35.2	2.9	5.9	26.2	75.9	129.5	204.0	6.8	4.2	59.5
2258	Warp knit fabric mills -----	-	26	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	78.2
2259	Knitting mills, n.e.c. -----	-	7	4	0.2	1.9	0.2	0.4	1.4	4.8	3.2	8.0	(D)	0.3	2.7

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
22	Textile mill products— Con.														
226	Textile finishing, except wool --	-	53	24	1.8	17.7	1.5	3.0	13.3	28.2	31.7	61.7	1.0	2.5	38.9
2261	Finishing plants, cotton ----	E2	15	5	0.3	2.8	0.2	0.5	2.1	5.8	3.5	9.2	0.1	0.4	9.5
2262	Finishing plants, synthetics --	-	16	6	0.6	6.3	0.4	1.0	4.7	8.8	7.5	18.6	0.4	1.1	10.7
2269	Finishing plants, n.e.c. ----	-	22	13	0.9	8.6	0.8	1.5	6.5	13.6	20.7	33.9	0.4	1.1	18.7
227	Floor covering mills ----	-	23	12	3.3	39.4	2.7	5.7	31.2	74.6	141.4	213.7	4.1	4.8	60.5
2271	Woven carpets and rugs ----	-	10	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2272	Tufted carpets and rugs ----	-	6	5	2.6	31.8	2.1	4.4	25.4	54.5	114.1	166.7	(D)	3.8	46.1
2279	Carpets and rugs, n.e.c. ----	-	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
228	Yarn and thread mills ----	-	54	44	5.1	40.3	4.7	9.2	33.5	60.1	82.7	143.8	4.9	FF	(D)
2281	Yarn mills, except wool ----	E1	13	8	1.4	11.4	1.3	2.6	9.7	21.0	26.1	47.3	2.5	1.1	9.9
2282	Throwing and winding mills --	-	28	25	2.9	21.5	2.7	5.1	18.0	26.1	35.4	62.1	(D)	3.9	29.1
2283	Wool yarn mills ----	-	7	6	0.3	2.7	0.3	0.5	2.1	4.1	6.5	10.5	0.1	CC	(D)
2284	Thread mills ----	-	6	5	0.6	4.6	0.5	1.0	3.7	8.9	14.8	23.9	0.7	0.5	5.2
229	Miscellaneous textile goods --	-	77	32	3.6	36.0	2.9	5.3	23.1	77.6	101.2	176.8	3.6	3.8	51.7
2292	Lace goods ----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.2
2295	Coated fabrics, not rubberized ----	E1	8	5	0.7	9.5	0.5	1.0	5.6	23.4	25.7	48.7	1.1	0.8	17.1
2296	Tire cord and fabric ----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2297	Nonwoven fabrics ----	-	13	7	0.9	8.3	0.7	1.3	5.0	21.1	28.6	49.4	1.4	CC	(D)
2298	Cordage and twine ----	-	9	7	0.7	6.9	0.6	1.1	4.7	13.7	15.2	28.2	0.5	0.3	3.6
2299	Textile goods, n.e.c. ----	E2	31	5	0.3	2.9	0.3	0.5	1.9	5.5	6.6	12.0	0.3	0.8	9.0
23	Apparel and other textile products ----	-	1 979	1 370	132.6	928.5	118.9	200.8	746.5	1 605.8	1 215.8	2 786.2	23.3	155.7	1 288.7
2311	Men's and boys' suits and coats ----	-	139	103	22.2	196.8	19.4	34.7	155.4	348.4	297.4	636.5	5.3	27.8	294.7
232	Men's and boys' furnishings --	-	231	183	21.9	150.3	20.1	33.9	125.4	253.5	229.4	477.7	3.7	28.6	239.4
2321	Men's and boys' shirts and nightwear ----	-	76	67	10.4	69.7	9.5	16.2	59.1	126.2	122.1	245.8	1.8	12.0	105.6
2322	Men's and boys' underwear --	-	10	7	0.8	5.0	0.7	1.2	3.6	6.0	10.3	16.6	(D)	1.0	7.0
2327	Men's and boys' separate trousers ----	-	53	42	4.8	35.9	4.5	7.5	30.8	49.1	32.9	80.7	0.6	6.8	57.0
2328	Men's and boys' work clothing ----	-	26	22	2.1	14.2	2.0	3.2	12.0	25.2	28.5	52.7	(D)	3.2	26.9
2329	Men's and boys' clothing, n.e.c. ----	-	56	43	3.7	24.4	3.3	5.6	19.2	44.5	33.9	77.7	0.8	4.9	36.0
233	Women's and misses' outerwear ----	E1	1 012	765	58.9	377.6	53.7	88.0	309.6	627.9	370.6	984.2	12.6	63.2	450.3
2331	Women's and misses' blouses and waists ----	-	277	249	20.0	129.7	18.4	30.2	108.4	215.3	123.1	326.8	6.1	16.5	114.7
2335	Women's and misses' dresses ----	E3	535	365	24.8	152.6	22.7	37.0	126.1	231.4	105.9	337.7	3.9	35.0	249.5
2337	Women's and misses' suits and coats ----	-	72	80	5.3	38.9	4.5	7.5	28.7	88.5	76.5	163.3	0.9	3.4	22.1
2339	Women's and misses' outerwear, n.e.c. ----	E1	128	91	8.9	56.3	8.1	13.2	46.4	92.7	65.0	156.3	1.6	8.4	64.0
234	Women's and children's undergarments ----	E1	99	82	9.6	61.3	8.3	14.1	47.5	107.9	82.6	187.9	2.2	12.3	96.5
2341	Women's and children's underwear ----	E1	83	69	8.2	51.7	7.0	11.9	39.7	90.2	71.0	158.4	2.0	0.4	83.4
2342	Brassieres and allied garments ----	-	16	13	1.4	9.6	1.3	2.2	7.8	17.7	11.6	29.5	0.1	1.9	13.1
235	Hats, caps, and millinery ----	-	24	14	1.5	11.5	1.3	2.4	8.3	18.2	18.7	36.6	0.4	1.1	9.7
2352	Hats and caps, except millinery ----	-	20	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	8.7
236	Children's outerwear ----	E1	120	101	8.5	54.4	7.6	12.6	44.7	102.4	64.8	165.3	1.0	9.4	78.4
2361	Children's dresses and blouses ----	-	79	65	5.6	34.1	5.0	8.2	27.6	61.8	40.8	101.7	0.4	6.4	40.4
2363	Children's coats and suits --	E1	10	8	0.7	5.1	0.6	1.1	4.3	9.7	3.1	12.7	0.2	1.2	10.9
2369	Children's outerwear, n.e.c. --	E1	31	28	2.2	15.2	1.9	3.3	12.8	30.9	21.0	50.8	0.3	1.9	14.3
238	Miscellaneous apparel and accessories ----	-	59	30	2.6	16.8	2.3	3.9	13.1	35.1	37.8	72.2	1.0	3.7	29.5
2381	Fabric dress and work gloves ----	-	6	4	0.4	2.3	0.3	0.6	1.8	4.8	4.4	9.1	(Z)	BB	(D)
2384	Robes and dressing gowns --	-	10	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	2.9
2385	Waterproof outer garments --	E1	5	3	0.2	1.4	0.2	0.3	1.2	1.9	0.6	2.5	(Z)	1.0	9.4
2387	Apparel belts ----	-	12	6	0.5	3.5	0.4	0.7	2.4	7.4	6.7	14.0	0.1	0.5	4.3
2389	Apparel and accessories, n.e.c. ----	-	26	9	1.1	7.2	1.0	1.8	5.6	17.4	25.3	42.2	0.8	EE	(D)
239	Miscellaneous fabricated textile products ----	-	285	90	7.4	59.3	6.2	11.2	41.9	111.5	112.6	223.0	2.2	9.6	90.1
2391	Curtains and draperies ----	-	70	18	1.2	8.0	1.0	1.8	5.7	14.2	20.7	36.5	0.2	1.6	14.0
2392	House furnishings, n.e.c. ----	-	54	21	2.1	15.4	1.7	3.0	10.7	31.9	34.8	65.0	0.5	2.7	26.2
2393	Textile bags ----	E2	11	6	0.3	2.7	0.3	0.5	1.8	6.4	5.7	12.0	0.2	0.2	1.2
2394	Canvas and related products ----	E2	52	4	0.4	3.1	0.3	0.5	1.9	6.2	4.2	10.4	0.2	0.6	5.2
2395	Pleating and stitching ----	-	24	7	0.7	5.9	0.6	0.9	4.1	10.4	10.1	20.4	0.2	1.0	12.3
2396	Automotive and apparel trimmings ----	-	30	13	0.7	7.2	0.6	1.2	5.3	12.5	14.3	26.9	(D)	1.0	12.1
2397	Schiffli machine embroideries ----	-	4	3	0.2	1.7	0.2	0.4	1.4	2.7	1.1	3.9	(D)	(NA)	(NA)
2399	Fabricated textile products, n.e.c. ----	-	40	18	1.8	15.3	1.6	3.1	11.0	27.2	21.7	48.0	0.6	2.3	18.0

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
24	Lumber and wood products -----	E1	1 324	244	20.4	202.2	17.1	32.5	147.4	438.5	600.7	1 028.5	34.7	22.2	321.5
2411	Logging camps and logging contractors -----	E4	256	7	1.0	9.5	0.9	1.4	8.0	25.5	23.2	47.5	3.1	0.7	7.9
242	Sawmills and planing mills -----	E2	486	63	4.8	41.5	4.2	8.5	32.5	95.4	109.9	201.4	12.7	4.4	53.6
2421	Sawmills and planing mills, general -----	E2	433	43	3.6	31.6	3.2	6.4	24.7	76.1	92.2	164.7	11.1	3.2	40.6
2426	Hardwood dimension and flooring -----	E1	50	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
243	Millwork, plywood, and structural members -----	-	247	77	6.2	65.9	5.1	9.8	47.0	125.4	151.0	275.9	4.8	6.6	83.0
2431	Millwork -----	-	103	28	1.9	19.1	1.5	2.9	13.4	38.2	74.5	112.2	2.0	2.0	27.0
2434	Wood kitchen cabinets -----	-	120	40	3.7	40.1	3.1	5.9	28.6	74.7	54.4	129.2	2.5	3.8	45.9
2435	Hardwood veneer and plywood -----	-	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	4.5
2439	Structural wood members, n.e.c. -----	-	18	5	0.2	2.5	0.1	0.3	1.5	5.7	13.7	19.2	(D)	0.4	5.5
244	Wood containers -----	E2	115	32	1.9	16.1	1.6	3.0	12.2	28.8	40.6	69.3	1.4	1.4	14.7
2441	Nailed wood boxes and shooks -----	E1	17	7	0.5	4.1	0.4	0.7	2.8	6.3	10.6	17.1	0.2	0.3	3.2
2448	Wood pallets and skids -----	E2	90	25	1.3	11.5	1.2	2.2	9.0	20.7	29.2	49.7	1.1	1.0	10.1
245	Wood buildings and mobile homes -----	-	63	44	4.1	45.6	3.2	5.9	30.7	95.2	195.6	290.3	4.0	6.5	131.6
2451	Mobile homes -----	-	26	23	2.1	22.4	1.6	2.9	15.1	42.9	97.6	140.7	2.2	4.2	68.8
2452	Prefabricated wood buildings -----	-	37	21	2.1	23.2	1.6	3.0	15.6	52.4	98.0	149.6	1.8	2.3	62.8
249	Miscellaneous wood products -----	-	157	21	2.4	23.6	1.9	4.0	17.0	68.2	80.5	144.2	8.7	2.4	30.7
2491	Wood preserving -----	-	16	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2499	Wood products, n.e.c. -----	-	140	18	2.2	20.8	1.8	3.6	15.3	60.6	57.3	114.3	8.1	2.3	28.7
25	Furniture and fixtures -----	-	454	186	20.1	213.5	16.2	31.7	152.4	419.5	375.0	788.9	18.5	23.7	313.6
251	Household furniture -----	-	241	97	9.5	86.2	8.0	15.5	62.6	160.4	173.6	334.2	5.4	12.6	152.6
2511	Wood household furniture -----	E1	114	34	3.6	30.8	3.2	6.5	23.8	58.7	51.0	107.2	3.0	4.6	48.8
2512	Upholstered household furniture -----	-	56	25	2.3	22.0	1.9	3.5	15.9	36.7	40.0	76.8	0.8	FF	(D)
2514	Metal household furniture -----	E1	26	16	2.0	18.8	1.7	3.3	13.7	31.0	44.8	78.7	0.4	EE	(D)
2515	Mattresses and bedsprings -----	-	35	18	0.9	10.3	0.7	1.2	5.7	24.1	29.2	52.8	0.7	1.0	17.4
2517	Wood TV and radio cabinets -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2519	Household furniture, n.e.c. -----	-	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
252	Office furniture -----	-	33	17	4.3	53.1	3.4	6.6	38.6	103.7	73.6	173.1	3.4	4.8	68.9
2521	Wood office furniture -----	-	13	5	0.6	6.1	0.4	0.8	3.7	12.4	5.6	17.4	0.3	0.7	7.9
2522	Metal office furniture -----	-	20	12	3.7	47.0	3.0	5.8	34.9	91.4	68.0	155.7	3.1	4.0	61.0
2531	Public building and related furniture -----	-	21	9	0.9	10.2	0.6	1.3	5.6	18.7	15.6	34.3	(D)	CC	(D)
254	Partitions and fixtures -----	-	117	51	4.5	53.7	3.5	7.0	38.8	117.2	94.7	210.8	7.1	4.4	67.9
2541	Wood partitions and fixtures -----	-	80	26	1.7	19.3	1.4	2.8	14.4	34.1	26.8	80.6	1.2	EE	(D)
2542	Metal partitions and fixtures -----	-	37	25	2.9	34.4	2.1	4.2	24.3	83.1	67.9	150.3	5.9	EE	(D)
259	Miscellaneous furniture and fixtures -----	-	42	12	0.9	10.4	0.7	1.3	6.8	19.5	17.6	36.5	(D)	EE	(D)
2591	Drapery hardware and blinds and shades -----	E3	19	3	0.2	1.7	0.1	0.2	1.0	3.3	3.4	6.7	(D)	0.2	3.0
2599	Furniture and fixtures, n.e.c. -----	-	23	9	0.8	8.7	0.6	1.0	5.8	16.2	14.1	29.8	0.9	CC	(D)
26	Paper and allied products -----	-	398	266	39.9	556.1	31.3	61.9	389.4	1 394.9	1 942.5	3 320.8	119.3	41.9	782.2
2621	Paper mills, except building paper -----	-	19	18	8.2	150.0	8.6	13.9	106.7	286.6	517.7	798.9	48.4	FF	(D)
2631	Paperboard mills -----	-	16	16	1.8	28.8	1.5	3.2	22.3	58.6	83.2	141.6	3.6	EE	(D)
264	Miscellaneous converted paper products -----	-	167	92	15.3	194.7	11.9	22.5	135.4	699.5	814.3	1 507.0	44.9	12.7	288.2
2641	Paper coating and glazing -----	-	31	15	2.4	33.8	1.7	3.5	21.1	110.0	141.3	247.6	4.3	1.4	46.0
2642	Envelopes -----	-	16	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2643	Bags, except textile bags -----	E1	26	14	2.5	30.8	1.9	3.8	21.3	68.6	108.8	177.2	2.8	2.2	43.3
2645	Die-cut paper and board -----	-	16	7	0.8	6.5	0.7	1.2	4.6	12.7	11.7	23.6	0.2	BB	(D)
2647	Sanitary paper products -----	-	10	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2648	Stationery products -----	-	18	6	1.1	12.4	0.8	1.6	8.0	26.9	34.9	61.1	2.8	1.8	25.0
2649	Converted paper products, n.e.c. -----	-	47	33	3.3	33.3	2.6	4.9	21.6	90.6	78.2	166.0	4.1	2.6	42.2
265	Paperboard containers and boxes -----	-	191	135	14.1	176.2	11.0	21.5	120.1	333.2	503.7	833.4	21.7	17.0	255.6
2651	Folding paperboard boxes -----	-	50	28	2.9	36.5	2.4	4.7	25.1	67.6	90.3	157.5	4.0	3.6	49.3
2652	Setup paperboard boxes -----	E1	28	23	1.2	10.8	1.1	2.0	8.1	17.2	14.3	31.2	0.8	2.1	19.7
2653	Corrugated and solid fiber boxes -----	-	81	61	6.6	88.4	4.8	9.6	55.6	160.3	263.9	424.0	12.9	7.6	117.0
2654	Sanitary food containers -----	-	13	10	2.1	24.7	1.7	3.2	18.6	55.3	80.7	133.3	2.5	2.6	49.3
2655	Fiber cans, drums, and similar products -----	-	19	13	1.3	15.8	1.1	2.1	12.6	32.8	54.6	87.4	1.4	1.1	20.2
2661	Building paper and board mills -----	-	5	5	0.5	6.5	0.4	0.8	4.9	17.0	23.5	39.9	0.8	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
27	Printing and publishing -----	-	2 190	510	68.6	863.7	42.3	77.4	497.7	1 875.4	1 129.1	3 001.1	92.2	69.1	1 180.1
2711	Newspapers -----	-	318	113	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	23.0	372.8
2721	Periodicals -----	-	102	18	4.1	48.4	0.7	1.3	6.5	279.7	180.5	459.6	1.5	FF	(D)
273	Books -----	-	113	41	6.3	74.5	4.0	7.4	41.9	168.4	94.1	260.7	6.7	6.1	95.5
2731	Book publishing -----	-	49	14	3.1	40.7	1.3	2.2	15.0	107.8	56.4	162.8	1.6	2.9	59.2
2732	Book printing -----	-	64	27	3.2	33.9	2.6	5.2	26.9	60.5	37.7	97.9	5.0	3.2	36.3
2741	Miscellaneous publishing -----	-	68	8	0.8	10.8	0.5	0.9	5.7	36.5	14.7	51.1	0.8	1.5	35.8
275	Commercial printing -----	-	1 297	220	23.3	305.6	18.2	33.5	218.3	524.5	427.6	953.3	30.4	25.4	373.3
2751	Commercial printing, letterpress -----	E1	687	51	6.0	63.2	4.6	8.2	43.2	125.0	104.9	229.6	5.7	8.1	114.7
2752	Commercial printing, lithographic -----	-	550	152	13.6	192.0	10.6	19.7	136.1	318.4	232.4	554.1	13.5	14.0	207.6
2753	Engraving and plate printing -----	-	39	10	1.3	14.0	1.1	2.1	10.4	23.4	12.2	34.5	5.4	0.5	8.0
2754	Commercial printing, gravure -----	-	21	7	2.4	36.4	2.0	3.5	28.6	57.6	78.1	135.1	5.8	2.7	43.0
2761	Manifold business forms -----	-	50	32	3.1	41.6	2.4	5.1	30.6	144.4	147.7	290.4	6.9	FF	(D)
2771	Greeting card publishing -----	-	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
278	Blankbooks and bookbinding --	-	72	34	3.5	37.2	2.8	5.5	27.1	69.3	26.2	95.1	2.5	2.7	32.0
2782	Blankbooks and looseleaf binders -----	-	22	15	1.6	17.6	1.2	2.4	12.4	40.3	17.6	57.6	1.7	1.1	15.4
2789	Bookbinding and related work -----	-	50	19	1.9	19.6	1.6	3.1	14.7	29.1	8.6	37.5	0.8	1.6	16.7
279	Printing trade services -----	-	163	41	4.1	55.0	3.3	6.0	41.4	88.7	18.3	106.1	6.1	3.5	52.3
2791	Typesetting -----	-	109	32	3.3	40.8	2.7	4.9	31.1	67.2	12.3	78.7	4.5	2.7	38.7
2793	Photoengraving -----	E1	21	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	6.2
2795	Lithographic platemaking services -----	-	32	7	0.6	11.8	0.5	0.9	8.5	17.7	5.0	22.6	1.2	BB	(D)
28	Chemicals and allied products -----	-	594	241	44.0	692.5	27.1	54.0	369.2	2 761.0	2 540.2	5 300.9	162.4	47.9	1 776.7
281	Industrial inorganic chemicals --	-	80	38	5.8	91.4	3.6	8.1	53.0	342.0	474.0	811.8	46.8	5.7	204.6
2813	Industrial gases -----	-	39	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2816	Inorganic pigments -----	-	11	9	1.5	20.7	1.0	1.9	12.8	66.8	79.3	144.2	9.0	1.5	47.4
2819	Industrial inorganic chemicals, n.e.c. -----	-	29	20	3.5	57.4	2.1	5.2	32.6	206.1	355.0	559.1	21.7	3.4	113.8
282	Plastics materials and synthetics -----	-	26	20	5.1	79.1	3.5	7.2	46.9	228.1	360.9	588.9	17.3	10.9	226.1
2821	Plastics materials and resins -----	-	21	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2823	Cellulosic manmade fibers --	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2824	Organic fibers, noncellulosic --	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
283	Drugs -----	-	70	32	14.8	265.5	8.5	16.5	126.9	1 383.7	501.0	1 880.0	33.8	13.0	906.6
2831	Biological products -----	E1	15	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2833	Medicinals and botanicals -----	-	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2834	Pharmaceutical preparations --	-	47	22	13.6	245.6	7.7	15.0	114.7	1 258.7	453.9	1 703.5	29.4	11.9	866.7
284	Soaps, cleaners, and toilet goods -----	-	119	35	2.9	36.4	1.8	3.6	19.5	155.9	187.8	344.2	5.0	3.6	102.9
2841	Soap and other detergents --	E1	35	9	0.8	10.0	0.6	1.0	6.0	41.9	54.5	96.6	1.2	CC	(D)
2842	Polishes and sanitation goods -----	-	48	14	1.1	12.6	0.7	1.4	6.8	58.0	66.4	124.1	1.8	1.3	36.1
2843	Surface active agents -----	-	12	9	0.6	9.1	0.3	0.7	4.5	29.6	56.0	85.6	1.6	CC	(D)
2844	Toilet preparations -----	E1	24	3	0.4	4.6	0.2	0.4	2.2	26.4	10.9	37.9	0.4	0.8	25.4
2851	Paints and allied products -----	-	61	30	3.6	53.0	2.1	3.9	25.8	158.4	186.2	342.6	6.1	4.5	119.4
286	Industrial organic chemicals --	-	41	24	6.0	96.7	3.7	7.5	55.8	286.6	552.7	849.5	37.4	3.9	84.0
2865	Cyclic crudes and intermediates -----	-	14	9	1.6	23.8	1.0	2.2	14.1	110.8	178.2	288.6	(D)	1.8	50.3
2869	Industrial organic chemicals, n.e.c. -----	-	23	13	4.3	72.2	2.7	5.3	41.2	171.2	370.2	552.0	22.3	2.0	32.9
287	Agricultural chemicals -----	-	44	13	1.2	14.4	0.9	1.8	9.5	46.8	109.0	153.8	3.9	1.4	22.2
2875	Fertilizers, mixing only -----	-	28	8	0.7	7.9	0.5	1.1	4.4	26.2	73.4	99.5	2.1	0.3	6.1
2879	Agricultural chemicals, n.e.c. --	-	12	2	0.3	4.4	0.2	0.4	3.7	13.0	20.5	32.8	1.1	0.8	11.1
289	Miscellaneous chemical products -----	-	153	49	4.5	56.1	2.9	5.4	31.9	159.6	168.6	330.2	12.1	5.0	110.9
2891	Adhesives and sealants -----	-	27	10	0.7	9.5	0.4	0.8	4.6	30.2	37.4	67.6	2.5	0.6	18.3
2892	Explosives -----	-	10	7	1.5	17.2	1.1	1.9	11.2	36.4	21.7	57.8	2.6	EE	(D)
2893	Printing ink -----	-	20	8	0.5	8.3	0.3	0.6	3.8	14.4	22.5	37.2	0.5	CC	(D)
2899	Chemical preparations, n.e.c. -----	-	96	24	1.8	21.1	1.1	2.0	12.3	78.5	86.9	167.7	6.5	2.2	55.9
29	Petroleum and coal products -----	-	167	52	11.0	200.6	7.7	15.3	130.0	1 064.2	4 546.0	5 553.4	87.5	12.2	349.0
2911	Petroleum refining -----	-	18	13	7.6	149.2	5.4	11.0	103.1	939.5	4 279.0	5 161.6	76.9	9.1	262.8
295	Paving and roofing materials --	-	104	18	1.9	25.3	1.5	2.9	17.9	70.0	134.0	203.3	6.4	1.7	53.4
2951	Paving mixtures and blocks --	-	92	13	1.1	14.2	0.9	1.6	9.9	33.7	78.7	112.1	3.8	1.1	30.2
2952	Asphalt felts and coatings --	-	12	5	0.8	11.1	0.6	1.3	7.9	36.4	55.4	91.2	2.6	0.6	23.2
299	Miscellaneous petroleum and coal products -----	-	45	21	1.5	26.2	0.7	1.4	9.0	54.6	132.9	188.4	4.2	1.4	32.9
2992	Lubricating oils and greases --	-	34	18	1.4	24.0	0.6	1.2	8.0	48.6	124.0	173.5	3.3	EE	(D)
2999	Petroleum and coal products, n.e.c. -----	E2	11	3	0.2	2.2	0.1	0.2	1.1	6.0	8.9	14.9	0.9	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
30	Rubber and miscellaneous plastics products ----	-	570	275	37.9	457.0	29.6	58.0	318.8	1 023.5	1 131.2	2 133.0	75.5	35.2	651.5
3011	Tires and inner tubes -----	-	13	8	7.1	109.6	5.7	11.3	83.7	271.8	345.4	599.4	10.8	FF	(D)
3021	Rubber and plastics footwear --	E4	8	7	1.7	12.3	1.5	2.6	9.9	19.4	15.9	35.1	0.5	2.2	16.8
3041	Rubber and plastics hose and belting -----	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3069	Fabricated rubber products, n.e.c. -----	-	54	28	3.7	43.7	2.7	5.1	28.7	77.9	58.3	135.3	3.3	3.7	52.5
3079	Miscellaneous plastics products -----	-	490	230	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	21.2	331.0
31	Leather and leather products -----	-	161	107	18.3	135.1	16.3	30.2	110.5	285.8	271.3	531.4	7.5	23.3	226.5
3111	Leather tanning and finishing --	-	19	12	1.4	17.0	1.2	2.5	13.9	52.2	58.5	110.4	(D)	1.6	25.4
3131	Boot and shoe cut stock and findings -----	E2	12	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	6.1
314	Footwear, except rubber -----	-	79	69	14.3	98.4	12.9	23.6	82.7	174.1	168.9	338.3	(D)	18.3	166.7
3142	House slippers -----	E1	9	5	0.9	6.2	0.8	1.3	4.8	8.9	8.1	16.9	0.1	CC	(D)
3143	Men's footwear, except athletic -----	-	18	17	4.1	30.5	3.8	7.5	26.8	57.8	72.3	127.4	1.0	FF	(D)
3144	Women's footwear, except athletic -----	-	28	25	4.9	33.2	4.4	7.7	27.1	57.6	47.8	104.6	1.2	9.5	78.7
3149	Footwear, except rubber, n.e.c. -----	-	24	22	4.4	28.5	3.8	7.1	24.0	49.9	40.7	89.4	(D)	4.7	36.2
3161	Luggage -----	-	13	7	0.9	7.4	0.8	1.5	5.0	14.9	17.5	32.5	(D)	1.0	9.0
317	Handbags and other personal leather goods -----	E4	14	6	0.9	6.4	0.8	1.4	4.6	12.1	9.0	20.7	(D)	1.3	12.4
3171	Women's handbags and purses -----	E6	8	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3172	Personal leather goods -----	-	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3199	Leather goods, n.e.c. -----	-	22	6	0.3	3.4	0.3	0.5	2.2	8.3	9.1	17.2	0.2	BB	(D)
32	Stone, clay, and glass products -----	-	978	366	54.0	700.2	43.5	84.3	528.2	1 578.1	1 193.9	2 771.0	95.1	56.7	1 114.2
3211	Flat glass -----	-	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
322	Glass and glassware, pressed or blown -----	-	45	30	14.9	188.6	13.1	24.8	157.9	427.1	241.2	669.5	27.2	15.2	298.7
3221	Glass containers -----	-	14	14	8.4	109.5	7.6	13.9	94.3	242.1	148.9	393.8	15.9	FF	(D)
3229	Pressed and blown glass, n.e.c. -----	-	31	16	6.5	79.2	5.6	10.9	63.6	185.0	92.3	275.7	11.3	FF	(D)
3231	Products of purchased glass --	-	76	31	5.6	76.6	4.4	8.8	57.9	166.3	142.6	306.1	6.1	5.4	106.0
3241	Cement, hydraulic -----	-	16	15	2.8	45.3	2.3	4.3	36.2	104.6	104.1	212.5	3.6	3.3	103.8
325	Structural clay products -----	-	71	47	5.5	65.2	4.3	8.6	47.9	126.4	98.1	224.5	7.6	FF	(D)
3251	Brick and structural clay tile --	-	25	14	1.3	11.7	1.0	1.9	9.0	25.8	18.4	45.3	2.5	EE	(D)
3253	Ceramic wall and floor tile --	-	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3255	Clay refractories -----	-	33	23	2.3	31.3	1.8	3.5	22.1	59.8	57.8	116.3	3.7	FF	(D)
3259	Structural clay products, n.e.c. -----	-	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
326	Pottery and related products --	-	46	17	4.9	55.0	3.9	7.3	40.1	99.4	33.7	132.4	3.5	5.0	67.4
3261	Vitreous plumbing fixtures --	-	6	3	1.0	12.0	0.8	1.6	10.0	27.3	10.0	37.3	(D)	EE	(D)
3262	Vitreous china food utensils --	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3264	Porcelain electrical supplies --	-	7	6	1.2	15.6	1.0	1.9	11.1	27.9	9.2	37.4	1.8	1.4	18.7
3269	Pottery products, n.e.c. -----	-	25	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	5.7
327	Concrete, gypsum, and plaster products -----	E1	482	128	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.4	161.9
3271	Concrete block and brick --	-	96	27	1.6	19.8	1.1	2.4	11.6	43.8	52.8	96.6	6.7	EE	(D)
3272	Concrete products, n.e.c. --	E2	191	43	2.7	31.8	2.1	4.1	21.1	63.3	46.4	108.9	4.3	3.4	56.2
3273	Ready-mixed concrete -----	E1	185	51	2.8	36.2	2.0	4.0	24.7	77.3	114.7	191.8	8.1	2.6	55.9
3274	Lime -----	-	8	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3281	Cut stone and stone products --	E2	43	5	0.5	4.8	0.4	0.9	3.7	8.7	4.3	13.0	0.3	CC	(D)
329	Miscellaneous nonmetallic mineral products -----	-	192	90	9.8	130.7	7.5	14.3	91.5	329.1	259.3	587.6	21.1	10.6	197.7
3291	Abrasive products -----	-	34	17	1.4	19.2	1.1	2.0	11.7	45.3	43.8	89.1	4.9	1.6	29.3
3292	Asbestos products -----	-	11	8	1.9	23.4	1.4	2.7	16.8	53.4	42.8	96.5	2.6	2.3	40.3
3293	Gaskets, packing, and sealing devices -----	-	23	10	0.8	10.9	0.6	1.1	6.4	20.6	14.7	35.9	1.0	1.9	29.6
3295	Minerals, ground or treated --	-	49	21	1.2	15.1	0.9	1.8	11.3	40.2	28.0	67.7	3.9	1.1	25.9
3296	Mineral wool -----	-	14	9	1.7	23.0	1.3	2.5	17.0	69.2	43.0	112.9	(D)	EE	(D)
3297	Nonclay refractories -----	-	30	20	2.4	35.5	1.9	3.7	26.0	93.6	82.5	174.2	3.8	EE	(D)
3299	Nonmetallic mineral products, n.e.c. -----	E1	31	5	0.3	3.6	0.2	0.4	2.4	6.8	4.5	11.3	(D)	0.2	2.3

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972	
			All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
33	Primary metal industries -----	-	598	355	181.2	3 185.7	142.6	270.6	2 401.0	5 750.8	9 812.5	15 504.3	500.6	194.9	3 697.2
331	Blast furnace and basic steel products -----	-	143	101	135.0	2 541.0	106.3	200.0	1 932.2	4 491.0	7 912.6	12 345.4	389.5	148.6	2 970.8
3312	Blast furnaces and steel mills -----	-	69	49	120.7	2 310.2	95.2	178.3	1 757.4	3 979.9	7 094.6	11 037.4	341.3	134.1	2 638.8
3315	Steel wire and related products -----	-	25	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.4	89.9
3316	Cold finishing of steel shapes -----	-	21	16	5.2	87.9	4.1	8.0	69.1	181.5	324.9	497.6	14.0	5.5	149.2
3317	Steel pipe and tubes -----	-	25	19	5.4	88.2	4.2	8.3	67.6	208.2	350.1	541.6	21.5	FF	(D)
332	Iron and steel foundries -----	-	143	106	21.6	306.9	17.5	33.5	232.9	507.0	415.6	924.5	43.3	19.7	266.0
3321	Gray iron foundries -----	-	91	66	8.5	113.6	7.2	13.5	88.5	198.9	208.1	407.9	17.2	7.5	112.8
3322	Malleable iron foundries -----	-	8	8	2.4	29.3	2.0	4.1	22.5	50.2	21.7	71.4	(D)	EE	(D)
3324	Steel investment foundries -----	-	5	4	0.3	3.2	0.3	0.5	2.5	5.6	3.5	9.1	(D)	EE	(D)
3325	Steel foundries, n.e.c. -----	-	39	28	10.3	160.8	8.1	15.4	119.3	252.4	182.3	436.2	24.1	8.2	104.6
333	Primary nonferrous metals -----	-	9	4	3.0	45.7	2.3	4.3	31.5	92.2	216.7	304.6	(D)	3.4	59.4
3333	Primary zinc -----	-	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3339	Primary nonferrous metals, n.e.c. -----	-	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3341	Secondary nonferrous metals -----	-	43	17	1.6	22.4	1.3	2.5	14.6	41.8	225.3	265.0	7.9	2.1	37.2
335	Nonferrous rolling and drawing -----	-	64	46	12.2	171.9	9.0	18.3	118.4	436.2	889.9	1 331.3	28.4	12.2	224.0
3351	Copper rolling and drawing -----	-	14	10	3.6	53.1	2.7	5.6	38.0	133.8	213.6	344.3	4.4	4.4	91.2
3353	Aluminum sheet, plate, and foil -----	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3354	Aluminum extruded products -----	-	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3356	Nonferrous rolling and drawing, n.e.c. -----	-	16	9	1.8	24.7	1.2	2.5	14.6	68.6	145.7	214.2	6.8	1.6	40.5
3357	Nonferrous wire drawing and insulating -----	-	21	17	3.5	44.4	2.6	5.0	30.3	90.0	179.7	273.0	4.8	2.7	31.9
336	Nonferrous foundries -----	-	119	54	5.9	72.8	4.9	9.0	55.1	124.6	95.7	219.3	5.4	7.2	106.8
3361	Aluminum foundries -----	-	67	32	3.5	45.0	3.1	5.5	35.6	81.8	50.5	131.7	2.9	3.5	56.9
3362	Brass, bronze, and copper foundries -----	-	42	19	2.2	25.9	1.7	3.1	17.9	39.7	42.7	82.0	2.3	3.4	47.4
3369	Nonferrous foundries, n.e.c. -----	E2	10	3	0.2	2.0	0.2	0.4	1.6	3.1	2.5	5.6	0.1	0.3	2.5
339	Miscellaneous primary metal products -----	E1	77	27	1.8	25.0	1.4	3.0	16.3	58.1	56.7	114.1	(D)	1.8	32.9
3398	Metal heat treating -----	E1	36	13	0.8	10.4	0.6	1.2	6.7	20.5	8.0	28.5	(D)	0.7	11.0
3399	Primary metal products, n.e.c. -----	E1	41	14	1.0	14.5	0.8	1.8	9.5	37.6	48.7	85.7	2.0	1.1	21.9
34	Fabricated metal products -----	-	1 940	838	104.5	1 428.5	79.3	155.0	987.2	3 007.1	3 073.0	5 999.2	153.8	109.3	1 836.2
341	Metal cans and shipping containers -----	-	33	25	4.2	68.4	3.6	7.4	57.6	184.4	300.2	478.1	2.9	5.8	113.8
3411	Metal cans -----	-	22	17	3.5	60.4	3.1	6.4	51.7	161.1	268.4	423.3	1.9	FF	(D)
3412	Metal barrels, drums, and pails -----	-	11	8	0.7	8.0	0.6	1.1	5.9	23.3	31.9	54.8	1.0	CC	(D)
342	Cutlery, hand tools, and hardware -----	-	117	54	7.4	81.5	6.0	11.7	59.4	174.6	123.1	298.9	6.2	7.6	116.6
3421	Cutlery -----	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	7.5
3423	Hand and edge tools, n.e.c. -----	-	42	19	3.1	36.6	2.4	4.7	26.2	74.0	51.6	128.5	2.8	2.9	52.3
3425	Hand saws and saw blades -----	-	8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.6
3429	Hardware, n.e.c. -----	E1	62	28	3.1	33.5	2.5	4.8	24.0	77.5	58.3	135.9	2.8	3.8	54.1
343	Plumbing and heating, except electric -----	-	64	31	4.4	56.0	3.2	6.2	35.8	135.0	119.1	249.6	6.7	5.6	97.9
3432	Plumbing fittings and brass goods -----	-	12	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3433	Heating equipment, except electric -----	-	48	23	3.5	47.6	2.5	4.8	29.5	111.9	97.2	205.5	6.0	4.1	75.1
344	Fabricated structural metal products -----	-	782	317	34.1	453.7	24.1	46.4	285.1	951.4	1 121.2	2 018.9	37.3	34.6	559.6
3441	Fabricated structural metal -----	-	182	82	8.9	120.7	6.4	11.8	78.8	225.3	283.7	499.9	7.4	10.7	164.3
3442	Metal doors, sash, and trim -----	-	96	36	4.1	42.3	3.1	5.9	27.0	83.5	98.1	179.5	3.8	FF	(D)
3443	Fabricated plate work (boiler shops) -----	-	146	86	11.6	168.6	7.9	15.7	104.7	392.1	319.5	681.1	17.8	11.5	205.8
3444	Sheet metal work -----	-	198	85	5.4	68.5	3.8	7.3	42.0	145.1	281.7	416.9	5.4	4.8	74.8
3446	Architectural metal work -----	-	123	30	2.5	31.5	1.9	3.6	20.5	56.6	53.6	110.0	1.4	2.5	35.7
3448	Prefabricated metal buildings -----	-	16	7	0.8	9.4	0.6	1.2	6.1	20.9	32.5	53.2	0.5	BB	(D)
3449	Miscellaneous metal work -----	-	21	11	0.9	12.8	0.5	1.0	6.0	27.9	52.2	78.3	1.0	1.3	22.9
345	Screw machine products, bolts, etc. -----	-	120	60	9.0	125.9	7.2	14.0	94.4	257.8	208.4	455.0	26.8	7.4	121.4
3451	Screw machine products -----	-	88	27	1.9	22.7	1.5	2.9	16.0	45.6	29.9	74.4	10.3	1.4	19.6
3452	Bolts, nuts, rivets, and washers -----	-	52	33	7.2	103.2	5.7	11.1	78.4	212.1	178.5	380.6	16.5	5.9	101.9
346	Metal forgings and stampings -----	-	166	91	16.2	269.7	12.8	26.0	201.9	521.9	516.0	1 038.0	28.0	16.4	315.9
3462	Iron and steel forgings -----	-	29	21	3.7	53.9	2.8	5.4	36.7	111.1	108.0	216.7	8.3	FF	(D)
3463	Nonferrous forgings -----	-	4	4	0.7	10.7	0.6	1.0	8.5	21.1	27.6	47.5	(D)	CC	(D)
3465	Automotive stampings -----	-	13	11	6.0	132.2	4.8	10.6	104.4	225.6	207.7	439.2	5.1	FF	(D)
3466	Crowns and closures -----	-	7	6	1.3	18.5	1.1	2.1	14.5	53.0	62.5	115.5	(D)	1.3	29.5
3469	Metal stampings, n.e.c. -----	-	113	49	4.5	54.3	3.5	6.9	37.9	111.1	110.2	219.1	9.4	3.5	58.4

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
34	Fabricated metal products—Con.														
347	Metal services, n.e.c. -----	-	236	67	4.0	49.0	3.2	6.4	33.2	94.8	101.1	196.4	5.7	3.9	59.7
3471	Plating and polishing -----	-	141	37	2.1	23.3	1.7	3.3	15.5	41.1	27.9	68.7	2.5	1.9	24.5
3479	Metal coating and allied services -----	-	95	30	2.0	25.7	1.5	3.1	17.7	53.7	73.2	127.7	3.2	2.1	35.2
348	Ordinance and accessories, n.e.c. -----	-	20	10	2.9	32.6	2.4	4.4	24.5	55.4	64.9	121.3	3.1	5.8	67.4
3483	Ammunition, except for small arms, n.e.c. -----	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.0	41.0
3489	Ordinance and accessories, n.e.c. -----	-	11	4	1.6	19.4	1.4	2.6	15.1	32.4	42.3	75.1	(D)	EE	(D)
349	Miscellaneous fabricated metal products -----	-	402	183	22.3	291.6	16.9	32.5	195.2	631.7	519.1	1 142.9	37.1	22.1	383.8
3493	Steel springs, except wire -----	-	19	13	1.8	29.1	1.5	3.1	21.6	71.4	70.1	140.1	4.6	EE	(D)
3494	Valves and pipe fittings -----	-	75	46	9.1	120.7	6.6	12.3	77.7	264.8	183.1	446.7	16.3	10.0	180.9
3495	Wire springs -----	-	13	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	15.1
3496	Miscellaneous fabricated wire products -----	-	69	29	3.1	36.7	2.3	4.7	23.1	80.0	79.2	155.6	4.6	3.4	53.4
3498	Fabricated pipe and fittings -----	-	52	34	3.2	47.6	2.4	4.4	31.6	107.5	97.7	206.8	5.0	2.1	50.5
3499	Fabricated metal products, n.e.c. -----	-	172	51	4.0	44.6	3.2	6.3	31.5	83.8	67.3	148.1	5.6	3.8	50.1
35	Machinery, except electrical -----	-	2 497	732	129.7	1 913.5	84.7	171.9	1 114.7	3 702.5	3 051.2	6 680.7	195.7	122.7	2 377.0
351	Engines and turbines -----	-	16	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3511	Turbines and turbine generator sets -----	-	7	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3519	Internal combustion engines, n.e.c. -----	-	9	4	0.5	7.0	0.4	0.8	5.1	22.3	15.6	36.1	0.7	AA	(D)
352	Farm and garden machinery -----	-	46	7	5.0	86.8	2.6	5.6	40.4	165.4	119.4	270.5	7.4	FF	(D)
3523	Farm machinery and equipment -----	-	44	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
353	Construction and related machinery -----	-	163	100	23.3	344.0	15.3	29.6	216.9	733.4	726.0	1 447.6	49.6	20.2	453.5
3531	Construction machinery -----	-	38	25	8.2	125.8	6.0	11.1	86.2	243.4	259.9	505.7	(D)	6.3	170.1
3532	Mining machinery -----	-	38	23	5.8	83.2	3.6	7.1	53.8	197.0	250.5	430.6	8.7	FF	(D)
3533	Oil field machinery -----	-	10	8	2.3	34.5	1.4	2.8	19.9	62.2	46.0	116.7	9.5	EE	(D)
3534	Elevators and moving stairways -----	-	10	6	0.6	7.7	0.4	0.7	3.9	27.9	16.7	44.5	0.4	CC	(D)
3535	Conveyors and conveying equipment -----	-	35	21	3.7	53.3	2.1	4.1	25.8	118.9	71.0	185.7	4.4	3.6	62.6
3536	Hoists, cranes, and monorails -----	-	13	11	1.2	16.7	0.8	1.7	10.2	39.4	41.2	78.5	(D)	CC	(D)
3537	Industrial trucks and tractors -----	-	19	6	1.4	22.9	1.1	2.1	17.2	44.6	40.8	86.0	(D)	FF	(D)
354	Metalworking machinery -----	-	570	149	19.2	291.8	13.6	27.7	187.0	574.2	349.4	957.6	30.4	18.3	341.5
3541	Machine tools, metal cutting types -----	-	42	11	1.9	27.3	1.2	2.7	15.1	47.6	19.2	66.3	2.6	1.5	23.9
3542	Machine tools, metal forming types -----	-	19	7	0.9	15.8	0.6	1.4	9.1	36.5	24.1	58.9	1.7	1.2	17.1
3544	Special dies, tools, jigs, and fixtures -----	-	406	88	7.7	119.2	6.2	12.9	89.0	201.3	84.0	279.7	(D)	6.0	117.5
3545	Machine tool accessories -----	-	57	19	3.2	48.0	2.0	4.0	26.8	122.7	125.9	251.1	3.9	FF	(D)
3546	Power driven hand tools -----	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3547	Rolling mill machinery -----	-	15	9	2.9	47.6	1.9	3.6	26.2	96.6	59.4	190.6	5.5	FF	(D)
3549	Metalworking machinery, n.e.c. -----	-	28	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	19.5
355	Special industry machinery -----	-	220	90	11.9	164.2	7.7	15.3	93.6	313.8	285.2	589.9	10.1	FF	(D)
3551	Food products machinery -----	-	25	11	2.1	28.0	1.2	2.4	13.9	54.1	36.7	90.8	1.7	1.3	21.8
3552	Textile machinery -----	-	34	13	1.4	18.4	0.9	1.8	10.8	22.5	20.5	44.7	1.0	5.5	58.0
3553	Woodworking machinery -----	-	12	4	0.5	5.6	0.4	0.7	3.6	18.1	12.9	31.2	0.4	0.5	7.4
3554	Paper industries machinery -----	-	15	9	1.0	15.6	0.7	1.4	8.5	29.3	17.5	46.3	0.6	1.8	26.7
3555	Printing trades machinery -----	-	27	13	2.6	34.1	1.9	3.7	23.1	67.1	67.3	130.4	2.2	1.5	31.2
3559	Special industry machinery, n.e.c. -----	-	107	40	4.3	62.4	2.7	5.3	33.7	122.7	130.3	246.5	4.2	FF	(D)
356	General industrial machinery -----	-	342	139	27.8	401.4	18.5	37.2	244.0	885.1	659.8	1 516.6	44.1	25.3	487.4
3561	Pumps and pumping equipment -----	-	33	16	3.7	56.7	2.4	5.1	31.5	123.0	115.9	231.0	5.0	3.0	86.3
3562	Ball and roller bearings -----	-	18	11	3.7	54.9	3.0	6.0	42.7	116.3	93.2	205.0	(D)	4.8	91.2
3563	Air and gas compressors -----	-	14	11	5.2	78.2	3.0	6.4	42.1	210.3	120.9	327.6	9.7	FF	(D)
3564	Blowers and fans -----	-	25	13	1.6	21.9	0.9	1.7	11.6	57.4	71.2	128.7	1.9	1.0	26.9
3565	Industrial patterns -----	E2	82	9	0.7	8.7	0.6	1.1	7.0	12.8	4.0	16.5	0.4	0.6	9.9
3566	Speed changers, drives, and gears -----	-	21	14	2.4	37.6	1.7	3.5	24.5	78.4	50.4	128.7	5.0	2.7	46.6
3567	Industrial furnaces and ovens -----	-	34	19	3.1	42.1	1.9	3.3	23.2	92.9	62.6	146.2	(D)	3.1	46.9
3568	Power transmission equipment, n.e.c. -----	-	17	11	3.2	42.1	2.3	4.5	27.1	82.6	51.8	136.2	4.3	EE	(D)
3569	General industrial machinery, n.e.c. -----	-	98	35	4.3	59.2	2.7	5.6	34.3	111.2	89.7	196.9	6.4	3.4	59.0
357	Office and computing machines -----	-	45	26	8.0	111.9	3.6	6.6	40.0	202.6	163.4	351.1	13.3	FF	(D)
3573	Electronic computing equipment -----	-	35	18	5.7	82.9	2.0	3.9	22.6	154.4	97.1	238.5	11.0	3.0	56.7
3574	Calculating and accounting machines -----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
35	Machinery, except electrical—Con.														
357	Office and computing machines—Con.														
3579	Office machines, n.e.c. and typewriters -----	-	6	5	1.0	14.3	0.6	1.1	6.6	26.4	15.1	41.3	0.7	CC	(D)
358	Refrigeration and service machinery -----	-	107	53	10.5	151.2	6.8	17.3	76.2	233.3	289.6	514.7	12.4	10.5	163.7
3581	Automatic merchandising machines -----	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3585	Refrigeration and heating equipment -----	-	53	32	7.4	112.4	4.8	13.4	54.3	151.8	204.1	350.3	10.0	8.1	118.9
3586	Measuring and dispensing pumps -----	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3589	Service industry machinery, n.e.c. -----	-	42	17	2.3	26.9	1.4	2.8	15.5	56.4	63.8	117.8	1.8	1.6	32.4
359	Miscellaneous machinery, except electrical -----	E1	988	160	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.3	158.1
3592	Carburetors, pistons, rings, and valves -----	-	7	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	13.3
3599	Machinery, except electrical, n.e.c. -----	E1	981	158	10.6	138.9	8.5	16.5	97.1	249.3	134.5	381.5	15.1	9.4	144.8
36	Electric and electronic equipment -	-	776	382	103.9	1 319.9	77.8	149.0	857.2	2 920.2	2 225.8	5 116.1	161.1	116.5	2 202.9
361	Electric distributing equipment -	-	48	21	19.0	290.0	13.3	25.2	190.8	618.4	310.6	927.2	15.0	26.4	496.2
3612	Transformers -----	-	16	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.5	147.2
3613	Switchgear and switchboard apparatus -----	-	32	16	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	16.9	349.1
362	Electrical industrial apparatus -	-	112	67	12.8	165.8	8.9	17.0	96.0	373.2	242.4	601.8	18.7	12.2	213.6
3621	Motors and generators -----	-	28	23	5.2	68.7	3.6	6.7	37.3	167.4	94.8	256.4	8.0	5.0	89.6
3622	Industrial controls -----	-	50	23	2.2	25.9	1.5	3.0	13.9	59.1	35.9	91.1	2.4	1.5	21.1
3623	Welding apparatus, electric -	-	8	5	1.5	20.9	1.1	1.8	13.1	52.1	57.3	109.4	(D)	1.5	34.4
3624	Carbon and graphite products -----	-	10	7	3.2	40.7	2.3	4.4	25.6	75.4	44.0	115.9	(D)	3.3	53.2
3629	Electrical industrial apparatus, n.e.c. -----	E1	16	9	0.7	9.7	0.5	1.1	6.0	19.1	10.3	29.1	0.6	0.9	15.4
363	Household appliances -----	-	21	8	4.6	48.8	3.8	7.2	34.9	129.2	121.9	254.9	7.5	FF	(D)
3631	Household cooking equipment -----	-	4	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3634	Electric housewares and fans -----	-	11	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
364	Electric lighting and wiring equipment -----	-	171	84	13.9	150.7	11.0	20.7	102.5	367.2	351.2	719.6	10.4	15.3	305.4
3641	Electric lamps -----	-	22	10	3.5	38.6	3.2	6.1	32.9	120.6	64.0	187.6	1.4	FF	(D)
3643	Current-carrying wiring devices -----	-	31	19	3.0	32.3	2.4	4.8	22.6	78.7	66.9	143.5	2.3	4.4	75.9
3644	Noncurrent-carrying wiring devices -----	-	22	16	2.0	23.5	1.6	3.0	17.1	48.8	63.5	112.4	1.7	EE	(D)
3645	Residential lighting fixtures -	-	62	24	3.8	39.5	2.6	4.4	18.9	81.9	80.2	162.3	1.8	4.2	73.6
3646	Commercial lighting fixtures -	-	18	8	1.3	12.9	1.0	1.8	8.3	30.1	62.9	93.5	1.6	EE	(D)
3648	Lighting equipment, n.e.c. -	-	14	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	5.8
365	Radio and TV receiving equipment -----	-	33	13	4.2	33.6	3.8	7.1	29.0	55.5	120.2	176.4	6.2	FF	(D)
3651	Radio and TV receiving sets -	-	14	8	3.5	27.6	3.3	6.0	24.2	45.7	111.3	157.8	(D)	FF	(D)
3652	Phonograph records and prerecorded tape -----	-	19	5	0.6	6.0	0.5	1.1	4.8	9.7	8.9	18.6	(D)	CC	(D)
366	Communication equipment -	-	100	41	7.5	96.1	4.2	8.0	45.1	201.3	127.4	325.1	10.6	15.1	245.9
3661	Telephone and telegraph apparatus -----	-	11	4	0.6	6.8	0.3	0.6	2.6	16.2	13.1	30.9	0.5	BB	(D)
3662	Radio and TV communication equipment -	-	89	37	6.8	89.4	3.9	7.5	42.5	185.1	114.3	294.2	10.1	FF	(D)
367	Electronic components and accessories -----	-	225	111	35.3	451.4	27.4	52.9	298.6	979.4	702.6	1 675.5	62.3	31.5	589.0
3671	Electron tubes, all types -	-	14	10	6.4	85.2	4.9	9.1	53.2	146.4	126.1	272.5	7.6	EE	(D)
3674	Semiconductors and related devices -----	-	31	16	10.6	162.2	8.0	15.4	107.9	359.9	157.0	514.8	36.6	10.3	205.3
3675	Electronic capacitors -----	-	8	7	1.7	15.7	1.2	2.6	10.4	23.6	15.1	38.9	(D)	1.8	15.9
3676	Electronic resistors -----	-	11	8	2.7	31.0	2.3	4.5	24.2	57.4	36.7	93.8	2.6	FF	(D)
3677	Electronic coils and transformers -----	-	14	10	1.8	15.3	1.6	3.3	11.1	25.9	10.3	35.1	1.1	1.3	19.6
3678	Electronic connectors -----	-	16	14	4.0	52.3	3.2	6.3	34.2	193.2	96.2	286.3	(D)	EE	(D)
3679	Electronic components, n.e.c. -----	-	131	46	8.0	89.6	6.2	11.7	57.5	173.1	261.2	434.2	7.4	5.4	78.6
369	Miscellaneous electrical equipment and supplies -	-	66	37	6.6	83.6	5.3	10.9	60.4	196.0	249.6	435.4	30.3	5.1	114.4
3691	Storage batteries -----	-	16	13	3.4	49.7	2.8	6.1	39.3	127.6	180.0	303.6	27.2	3.0	83.2
3692	Primary batteries, dry and wet -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3693	X-ray, electromedical, and electrotherapeutic apparatus -	-	6	5	0.8	11.7	0.5	1.0	5.4	23.0	16.8	36.2	1.6	(NA)	(NA)
3694	Engine electrical equipment -	-	22	11	1.6	15.2	1.4	2.7	11.3	29.8	37.9	65.1	(D)	1.0	14.3
3699	Electrical equipment and supplies, n.e.c. -----	E2	18	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972		
			E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expen- diture (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
				Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
37	Transportation equipment -----	-	341	154	70.2	1 118.7	49.6	98.0	706.2	2 228.6	2 562.0	4 700.8	195.0	58.2	1 354.6	
371	Motor vehicles and equipment -	-	187	79	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
3711	Motor vehicles and car bodies -----	-	12	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
3713	Truck and bus bodies -----	-	52	23	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(NA)	
3714	Motor vehicle parts and accessories -----	-	95	29	8.8	146.9	7.4	15.4	117.9	297.7	318.9	612.7	10.7	8.2	176.5	
3715	Truck trailers -----	-	25	20	4.1	50.7	3.2	6.6	37.3	87.7	229.4	316.1	2.9	FF	(D)	
3716	Motor homes produced on purchased chassis -----	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
372	Aircraft and parts -----	-	30	19	11.7	187.0	7.4	15.3	106.3	336.8	223.3	564.9	(D)	11.3	228.7	
3721	Aircraft -----	-	4	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
3724	Aircraft engines and engine parts -----	-	14	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
3728	Aircraft equipment, n.e.c. -----	-	12	7	0.9	14.1	0.6	1.3	9.2	25.2	8.5	33.2	0.9	1.1	17.8	
373	Ship and boat building and repairing -----	-	31	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.4	109.3	
3731	Ship building and repairing -----	-	13	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.4	98.2	
3732	Boat building and repairing -----	E1	18	4	0.3	3.2	0.3	0.5	1.9	5.2	5.6	11.0	0.2	1.1	11.2	
3743	Railroad equipment -----	-	31	20	18.7	288.8	13.8	24.7	194.8	616.2	694.4	1 275.2	(D)	FF	(D)	
3751	Motorcycles, bicycles, and parts -----	-	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
376	Guided missiles, space vehicles, parts -----	-	3	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
3761	Guided missiles and space vehicles -----	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
3769	Space vehicle equipment, n.e.c. -----	-	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
379	Miscellaneous transportation equipment -----	-	52	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
3792	Travel trailers and campers -----	-	34	15	1.4	12.7	1.2	2.2	9.5	30.7	56.1	86.6	0.9	EE	(D)	
3795	Tanks and tank components -----	-	3	3	2.4	32.5	2.0	4.0	26.7	93.6	103.1	157.5	(D)	EE	(D)	
3799	Transportation equipment, n.e.c. -----	-	15	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	19.2	
38	Instruments and related products -----	-	410	154	38.0	510.3	23.6	47.2	264.9	1 151.5	580.5	1 696.7	46.5	32.7	601.5	
3811	Engineering and scientific instruments -----	-	47	17	2.4	28.8	1.4	3.0	15.7	78.6	37.8	113.8	2.6	2.0	38.8	
382	Measuring and controlling devices -----	-	136	62	20.3	285.4	12.5	24.9	145.7	600.9	254.8	837.6	17.9	17.8	337.4	
3822	Environmental controls -----	-	15	6	2.1	20.8	1.7	2.8	15.2	33.2	16.8	51.0	0.4	FF	(D)	
3823	Process control instruments -----	-	28	17	10.1	161.5	4.7	10.0	61.8	330.2	123.5	442.0	10.3	8.9	170.8	
3824	Fluid meters and counting devices -----	-	8	7	3.3	41.3	2.4	4.7	26.5	113.1	61.1	174.6	4.4	EE	(D)	
3825	Instruments to measure electricity -----	-	38	13	1.6	19.0	1.1	2.1	11.0	37.5	17.3	52.5	1.0	2.0	32.8	
3829	Measuring and controlling devices, n.e.c. -----	-	47	19	3.2	42.8	2.5	5.3	31.1	86.9	36.2	117.4	1.8	2.1	39.4	
3832	Optical instruments and lenses -----	-	28	13	1.5	21.3	1.1	2.5	13.3	53.5	26.6	77.4	(D)	0.9	19.4	
384	Medical instruments and supplies -----	-	126	45	10.8	136.2	6.6	12.9	68.7	285.1	190.8	461.6	12.7	9.3	158.2	
3841	Surgical and medical instruments -----	-	36	17	3.8	53.7	2.0	4.0	23.0	117.2	79.0	193.5	5.0	1.3	15.4	
3842	Surgical appliances and supplies -----	E1	65	18	4.9	58.9	3.2	6.3	32.7	122.8	84.1	196.8	6.6	6.3	107.1	
3843	Dental equipment and supplies -----	-	25	10	2.1	23.6	1.4	2.7	13.1	45.1	27.7	71.3	1.1	1.8	35.7	
3851	Ophthalmic goods -----	-	31	2	0.6	7.7	0.5	1.0	5.1	15.5	5.9	21.2	0.8	CC	(D)	
3861	Photographic equipment and supplies -----	-	30	7	1.2	19.1	0.8	1.5	10.1	101.4	40.4	141.4	2.4	CC	(D)	
3873	Watches, clocks, and watchcases -----	-	12	8	1.1	11.9	0.8	1.4	6.3	16.5	24.2	43.6	(D)	0.7	9.2	
39	Miscellaneous manufacturing industries -----	-	567	173	25.3	302.4	19.3	36.3	192.5	746.4	661.5	1 397.0	44.2	31.0	544.2	
391	Jewelry, silverware, and plated ware -----	E1	84	12	0.9	9.6	0.7	1.3	5.9	22.1	32.2	53.7	0.4	EE	(D)	
3911	Jewelry, precious metal -----	E3	64	7	0.5	5.5	0.4	0.7	3.1	11.0	16.0	26.8	0.2	0.4	6.9	
3914	Silverware and plated ware -----	E1	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
3915	Jewelers' materials and lapidary work -----	-	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
3931	Musical instruments -----	-	20	6	1.0	12.2	0.8	1.6	7.9	19.9	13.5	32.9	0.9	CC	(D)	
394	Toys and sporting goods -----	-	105	32	3.5	32.3	2.8	5.3	22.7	98.6	94.8	191.0	3.8	8.7	115.7	
3944	Games, toys, and children's vehicles -----	-	34	10	1.6	15.0	1.3	2.5	10.3	60.9	48.4	107.7	1.6	FF	(D)	
3949	Sporting and athletic goods, n.e.c. -----	-	63	20	1.8	16.9	1.5	2.8	12.1	36.9	45.4	81.6	2.2	5.3	78.0	

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
39	Miscellaneous manufacturing industries—Con.														
395	Pens, pencils, office and art supplies	-	51	17	2.8	27.4	2.1	4.0	17.5	63.8	41.6	104.0	5.7	2.8	39.6
3951	Pens and mechanical pencils	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3952	Lead pencils and art goods	-	7	6	1.5	14.4	1.2	2.4	9.7	39.9	18.0	57.0	(D)	EE	(D)
3953	Marking devices	-	33	6	0.6	7.0	0.4	0.8	3.6	11.8	8.5	20.2	0.3	0.8	10.4
3955	Carbon paper and inked ribbons	E1	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
396	Costume jewelry and notions	-	35	15	3.1	32.6	2.2	4.1	19.5	48.9	48.5	99.6	2.1	3.0	30.5
3961	Costume jewelry	-	10	3	0.3	2.0	0.3	0.4	1.3	3.8	3.2	7.0	(D)	AA	(D)
3962	Artificial flowers	-	16	6	0.7	6.3	0.6	1.0	4.3	12.2	15.4	29.4	(D)	0.9	11.0
3964	Needles, pins, and fasteners	-	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
399	Miscellaneous manufactures	-	372	91	14.0	188.4	10.7	20.0	119.0	493.2	430.9	915.7	31.3	14.3	325.6
3991	Brooms and brushes	-	22	10	0.8	8.1	0.5	0.9	3.5	12.9	13.2	25.5	0.4	0.6	7.1
3993	Signs and advertising displays	E1	163	25	1.9	23.0	1.4	2.6	13.8	39.0	25.6	65.1	1.5	2.0	31.8
3995	Burial caskets	-	23	12	1.8	17.8	1.5	2.7	13.2	31.0	26.3	56.7	(D)	EE	(D)
3996	Hard surface floor coverings	-	3	3	4.4	66.6	3.4	7.3	50.8	237.5	210.3	439.4	(D)	FF	(D)
3999	Manufacturing industries, n.e.c.	-	161	41	5.2	73.0	3.9	6.6	37.7	172.8	155.4	329.1	13.6	5.8	104.9
-	Administrative and auxiliary	-	546	326	87.3	1 733.9	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

² Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

³ Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Philadelphia-Wilmington-Trenton, Pa.-Del.-N.J.-Md., SCSA	-	8 964	3 306	550.5	8 072.4	343.8	667.7	4 192.6	15 796.6	22 402.4	38 008.3	921.5	597.8	11 008.5
20	Food and kindred products	-	567	256	41.5	554.3	29.1	57.4	346.8	1 542.4	2 995.6	4 528.2	(D)	43.9	997.5
201	Meat products	E1	113	52	7.9	109.0	6.1	12.2	76.1	254.6	1 049.7	1 299.4	24.9	(NA)	(NA)
2017	Poultry and egg processing	-	5	5	0.9	9.4	0.7	1.5	6.5	23.6	89.4	113.0	2.3	(NA)	(NA)
203	Preserved fruits and vegetables	-	59	29	6.3	74.8	4.9	9.2	50.9	227.1	334.2	561.6	11.7	(NA)	(NA)
204	Grain mill products	-	24	7	0.9	12.3	0.7	1.3	8.3	58.8	105.1	164.9	(D)	(NA)	(NA)
2052	Cookies and crackers	-	17	5	2.9	41.8	2.5	5.3	35.2	136.2	88.2	224.6	(D)	(NA)	(NA)
2087	Flavoring extracts and sirups, n.e.c.	E2	13	6	0.5	7.0	0.3	0.7	4.0	24.8	27.1	51.1	(D)	(NA)	(NA)
2231	Weaving and finishing mills, wool	E4	9	4	0.3	2.1	0.2	0.3	1.5	3.1	1.4	4.5	0.1	(NA)	(NA)
2241	Narrow fabric mills	E1	10	5	0.3	2.7	0.3	0.6	2.1	5.7	5.2	10.8	0.2	(NA)	(NA)
2258	Warp knit fabric mills	-	12	6	0.5	6.1	0.5	0.9	4.5	13.2	16.4	29.5	0.5	(NA)	(NA)
228	Yarn and thread mills	E1	28	23	1.9	15.3	1.7	3.3	12.3	26.9	38.0	64.8	1.5	(NA)	(NA)
2281	Yarn mills, except wool	E4	8	5	0.6	5.3	0.6	1.1	4.4	11.3	15.4	26.3	(D)	(NA)	(NA)
2282	Throwing and winding mills	-	8	8	0.6	4.5	0.5	1.1	3.8	5.8	7.7	13.7	0.1	(NA)	(NA)
2283	Wool yarn mills	-	8	7	0.3	3.1	0.3	0.6	2.4	4.8	6.7	11.4	(D)	(NA)	(NA)
2284	Thread mills	-	4	3	0.3	2.4	0.3	0.5	1.8	5.0	8.2	13.4	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. **Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.**

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Philadelphia-Wilmington-Trenton, Pa-Del.-N.J.-Md., SCSA—Con.														
23	Apparel and other textile products -----	-	663	348	35.5	288.1	30.4	52.8	211.9	578.2	571.3	1 127.6	(D)	48.6	490.2
234	Women's and children's undergarments -----	-	11	8	0.8	5.4	0.7	1.3	3.8	11.9	11.1	23.4	0.1	(NA)	(NA)
2363	Children's coats and suits -----	-	5	4	0.4	3.3	0.4	0.7	2.8	6.7	2.0	8.7	(D)	(NA)	(NA)
2369	Children's outerwear, n.e.c. -----	-	7	7	0.7	5.2	0.5	0.8	4.0	4.2	5.5	12.3	(D)	(NA)	(NA)
2395	Pleating and stitching -----	E1	17	3	0.3	2.6	0.3	0.3	1.7	4.8	2.2	7.0	(D)	(NA)	(NA)
2514	Metal household furniture -----	E1	19	12	1.6	14.5	1.3	2.6	10.4	21.5	33.7	58.5	0.2	(NA)	(NA)
252	Office furniture -----	-	17	7	1.6	20.9	1.3	2.4	14.1	42.8	32.7	74.6	1.2	(NA)	(NA)
26	Paper and allied products -----	-	266	150	18.9	263.9	14.6	28.2	181.9	660.6	849.8	1 504.6	38.7	21.2	419.1
2643	Bags, except textile bags -----	E3	15	6	1.3	16.9	0.9	1.9	10.7	36.8	52.6	88.9	1.8	(NA)	(NA)
2648	Stationery products -----	-	11	2	0.3	3.3	0.3	0.5	2.6	6.3	7.2	11.3	(D)	(NA)	(NA)
2649	Converted paper products, n.e.c. -----	-	30	13	0.9	10.2	0.6	1.2	6.0	25.5	30.3	55.5	1.9	(NA)	(NA)
2652	Setup paperboard boxes -----	-	11	10	0.6	6.2	0.6	1.0	4.7	9.2	8.7	17.7	0.7	(NA)	(NA)
2654	Sanitary food containers -----	-	8	5	0.5	5.7	0.4	0.7	4.1	9.5	40.3	49.8	0.8	(NA)	(NA)
27	Printing and publishing -----	-	1 324	289	41.4	537.8	24.1	43.3	291.8	1 186.5	685.0	1 872.9	57.4	41.0	743.0
2721	Periodicals -----	-	62	15	3.5	41.9	0.7	1.2	6.2	251.4	153.8	405.0	1.1	(NA)	(NA)
2752	Commercial printing, lithographic -----	E1	322	78	6.6	97.1	4.9	9.1	66.1	156.9	116.0	277.8	7.1	(NA)	(NA)
279	Printing trade services -----	-	115	29	3.2	45.1	2.5	4.6	33.2	73.7	17.1	90.4	3.8	(NA)	(NA)
28	Chemicals and allied products -----	-	421	197	42.5	747.6	26.1	51.6	397.4	2 684.0	2 619.3	5 288.0	(D)	44.8	1 728.3
289	Miscellaneous chemical products -----	-	110	42	3.5	43.8	2.1	4.1	22.5	114.7	129.6	239.8	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	343	163	21.9	291.2	16.8	33.0	200.1	630.3	722.9	1 337.5	39.0	23.6	472.2
3011	Tires and inner tubes -----	-	5	3	5.2	83.3	4.2	8.2	65.6	208.5	280.7	470.5	7.7	(NA)	(NA)
3079	Miscellaneous plastics products -----	-	287	129	12.4	152.3	9.4	18.5	98.1	333.2	348.5	682.3	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	381	145	16.8	220.2	13.1	25.9	157.3	488.4	436.9	928.5	30.7	19.6	376.2
3272	Concrete products, n.e.c. -----	E2	61	22	1.1	13.7	0.9	1.7	9.2	27.7	18.0	46.1	1.3	(NA)	(NA)
3317	Steel pipe and tubes -----	-	10	8	1.5	20.9	1.1	2.2	15.1	26.4	28.3	56.0	1.2	(NA)	(NA)
339	Miscellaneous primary metal products -----	-	35	15	1.1	17.4	0.8	1.6	11.1	50.5	40.7	90.0	2.9	(NA)	(NA)
3398	Metal heat treating -----	-	19	9	0.5	6.0	0.4	0.7	4.0	11.3	3.8	15.1	(D)	(NA)	(NA)
3399	Primary metal products, n.e.c. -----	-	16	6	0.7	11.3	0.5	0.9	7.1	39.2	36.9	74.9	(D)	(NA)	(NA)
341	Metal cans and shipping containers -----	-	18	16	3.1	49.0	2.7	5.3	41.0	134.9	205.6	335.6	3.7	(NA)	(NA)
3411	Metal cans -----	-	13	12	2.6	42.7	2.3	4.6	36.6	119.8	180.7	296.1	(D)	(NA)	(NA)
3412	Metal barrels, drums, and pails -----	-	5	4	0.5	6.3	0.4	0.7	4.4	15.1	24.9	39.5	(D)	(NA)	(NA)
3433	Heating equipment, except electric -----	-	17	7	0.9	11.1	0.5	1.0	5.6	21.6	24.9	46.6	1.0	(NA)	(NA)
3444	Sheet metal work -----	-	122	35	3.3	38.4	2.4	4.5	25.1	68.8	80.8	148.7	3.7	(NA)	(NA)
3452	Bolts, nuts, rivets, and washers -----	-	26	17	3.0	40.4	2.4	4.9	31.2	90.3	59.0	147.9	(D)	(NA)	(NA)
3495	Wire springs -----	-	8	6	0.5	5.2	0.4	0.8	3.8	8.5	9.9	18.3	0.7	(NA)	(NA)
35	Machinery, except electrical -----	-	1 294	333	51.4	751.3	32.3	68.7	419.1	1 355.6	1 127.3	2 463.7	(D)	51.7	1 015.9
3535	Conveyors and conveying equipment -----	E1	19	10	1.5	22.2	0.9	1.6	10.6	48.3	35.3	81.5	0.7	(NA)	(NA)
354	Metalworking machinery -----	-	279	49	4.7	75.4	3.6	7.7	54.3	130.5	59.2	187.2	(D)	(NA)	(NA)
3542	Machine tools, metal forming types -----	-	12	4	0.6	10.5	0.4	0.9	6.4	22.1	15.0	36.4	1.2	(NA)	(NA)
3551	Food products machinery -----	-	16	7	0.5	7.3	0.3	0.6	3.5	13.9	9.8	24.0	0.3	(NA)	(NA)
3554	Paper industries machinery -----	-	15	7	1.3	20.5	0.7	1.5	10.7	35.2	24.1	58.7	1.4	(NA)	(NA)
3585	Refrigeration and heating equipment -----	-	33	18	4.1	45.4	2.9	9.5	29.0	91.6	99.0	188.0	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E1	494	68	5.5	72.1	4.4	8.6	50.2	129.5	71.5	199.2	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	475	199	41.2	557.8	29.2	55.2	340.5	1 076.6	978.7	2 029.3	46.1	55.9	978.4
3612	Transformers -----	-	9	3	0.4	3.9	0.3	0.6	2.8	7.9	7.0	14.9	0.1	(NA)	(NA)
364	Electric lighting and wiring equipment -----	-	97	45	7.6	80.8	5.6	10.3	47.7	184.5	207.3	383.5	(D)	(NA)	(NA)
3644	Noncurrent-carrying wiring devices -----	E1	10	7	0.8	10.7	0.7	1.2	6.9	24.0	30.8	53.7	0.6	(NA)	(NA)
3646	Commercial lighting fixtures -----	-	11	5	1.3	13.1	1.0	1.7	8.4	32.9	69.5	101.2	1.5	(NA)	(NA)
3676	Electronic resistors -----	-	7	4	0.8	7.7	0.7	1.3	5.7	15.3	5.3	21.3	0.7	(NA)	(NA)
3678	Electronic connectors -----	-	5	3	0.3	2.7	0.2	0.4	1.8	5.9	4.2	10.3	(D)	(NA)	(NA)
3724	Aircraft engines and engine parts -----	-	8	4	0.4	6.3	0.3	0.6	3.8	11.6	6.8	18.1	0.6	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Philadelphia-Wilmington-Trenton, Pa.-Del.-N.J.-Md., SCSA—Con.														
3991	Brooms and brushes ---	-	11	5	0.4	4.3	0.2	0.4	1.7	5.3	5.8	10.5	0.1	(NA)	(NA)
	Allentown-Bethlehem-Easton, Pa.-N.J., SMSA-----	-	1 183	621	106.8	1 430.8	75.8	140.9	853.3	2 731.8	3 105.1	5 828.2	172.8	110.4	1 805.6
20	Food and kindred products --	-	77	25	6.2	88.7	4.3	8.2	56.8	305.0	707.1	1 014.7	10.8	6.0	137.4
202	Dairy products -----	-	15	4	0.7	8.5	0.4	0.9	5.5	13.8	75.7	88.9	0.7	0.9	7.0
205	Bakery products -----	E1	13	1	0.3	4.3	0.2	0.3	2.3	8.2	7.2	15.4	0.2	0.7	10.3
22	Textile mill products-----	-	76	51	5.2	48.7	4.5	8.8	36.8	104.0	137.4	241.8	7.6	5.5	102.8
225	Knitting mills-----	E1	47	34	3.9	36.2	3.3	6.3	26.7	82.8	106.4	189.5	7.1	4.5	68.0
228	Yarn and thread mills-----	-	5	4	0.5	3.7	0.4	0.9	3.0	5.0	10.4	15.7	(D)	0.8	4.8
23	Apparel and other textile products-----	-	345	262	24.3	163.9	22.0	36.4	135.6	253.5	154.0	404.6	6.1	24.2	186.2
232	Men's and boys' furnishings-----	-	24	15	1.9	13.5	1.8	3.0	11.5	17.4	6.1	24.3	(D)	2.9	22.0
2321	Men's and boys' shirts and nightwear-----	E1	11	6	0.5	3.7	0.5	0.8	3.1	4.8	2.5	8.1	(D)	1.2	10.8
2327	Men's and boys' separate trousers-----	-	8	7	1.2	8.5	1.1	1.9	7.7	11.3	2.4	13.7	(D)	0.8	5.6
2331	Women's and misses' blouses and waists-----	-	162	142	10.3	65.0	8.6	15.9	57.3	81.2	26.8	108.4	2.5	8.1	49.6
2335	Women's and misses' dresses-----	E4	44	25	1.8	10.7	1.7	2.5	9.4	16.4	4.9	21.2	0.4	2.8	18.4
2337	Women's and misses' suits and coats-----	-	14	9	0.9	6.6	0.8	1.3	4.9	20.3	10.4	30.5	(D)	0.5	3.7
2339	Women's and misses' outerwear, n.e.c.-----	E1	37	29	2.9	18.7	2.7	4.4	15.9	26.7	9.2	35.9	0.6	2.5	16.4
238	Miscellaneous apparel and accessories-----	-	7	5	0.8	4.4	0.7	1.2	3.7	13.0	17.7	30.3	(D)	0.7	4.0
239	Miscellaneous fabricated textile products-----	-	18	8	1.2	10.4	0.9	1.5	6.7	18.5	22.4	39.2	(D)	1.8	19.8
2392	House furnishings, n.e.c.-----	-	8	5	0.9	7.4	0.7	1.2	4.6	14.1	17.2	29.6	0.1	1.1	12.7
24	Lumber and wood products--	E1	27	4	0.4	3.0	0.3	0.5	2.2	7.4	10.7	18.0	1.5	0.4	5.3
25	Furniture and fixtures-----	-	32	13	0.9	10.5	0.8	1.4	6.6	22.8	13.4	35.4	1.4	1.0	12.7
251	Household furniture-----	E1	16	6	0.3	2.9	0.3	0.6	2.3	5.6	4.1	9.3	0.2	0.3	3.4
254	Partitions and fixtures-----	-	7	3	0.3	4.7	0.2	0.4	2.5	12.0	5.5	17.4	(D)	0.3	5.1
26	Paper and allied products ---	-	21	17	2.0	24.7	1.6	3.1	17.9	65.5	76.2	140.3	3.0	3.0	52.2
264	Miscellaneous converted paper products-----	-	7	5	0.7	9.7	0.6	1.3	7.1	35.9	35.2	70.9	(D)	(NA)	(NA)
2653	Corrugated and solid fiber boxes-----	-	6	4	0.4	5.6	0.3	0.5	3.2	8.7	20.0	28.8	1.2	(NA)	(NA)
27	Printing and publishing ----	E1	109	26	4.1	49.7	2.2	3.9	24.7	114.4	61.9	175.7	3.3	3.9	58.9
2711	Newspapers-----	-	12	7	1.4	17.8	0.4	0.8	4.9	39.1	16.2	55.3	1.1	1.5	25.8
273	Books-----	E6	6	3	0.3	3.2	0.2	0.4	2.2	6.7	2.7	9.4	0.3	(NA)	(NA)
275	Commercial printing-----	E1	69	11	1.4	18.9	1.1	2.0	14.7	30.6	14.7	45.2	1.0	1.8	23.8
2752	Commercial printing, lithographic-----	E1	33	10	1.2	16.8	1.0	1.8	12.9	26.6	12.5	39.0	1.0	1.3	16.7
28	Chemicals and allied products-----	-	41	18	3.3	50.1	2.1	4.6	28.5	152.4	148.0	310.4	26.2	3.3	87.5
281	Industrial inorganic chemicals-----	-	11	7	1.8	26.2	1.1	2.2	14.6	93.3	75.1	165.9	(D)	2.0	69.9
2819	Industrial inorganic chemicals, n.e.c.-----	-	4	2	0.9	13.1	0.4	1.0	6.5	30.5	27.9	57.3	(D)	0.9	21.0
30	Rubber and miscellaneous plastics products-----	-	30	20	2.7	30.3	2.2	4.1	21.9	82.2	103.4	186.5	8.7	2.8	55.8
32	Stone, clay, and glass products-----	-	68	29	2.8	39.7	2.3	4.3	29.8	85.1	80.0	165.6	8.2	3.0	75.2
3241	Cement, hydraulic-----	-	8	8	1.5	24.8	1.2	2.3	19.3	48.9	47.5	97.8	1.6	1.8	56.3
327	Concrete, gypsum, and plaster products-----	E1	28	9	0.4	4.1	0.3	0.4	2.4	8.7	11.1	19.6	0.8	0.5	8.4
329	Miscellaneous nonmetallic mineral products-----	-	14	7	0.5	7.4	0.4	0.8	5.4	21.6	19.4	40.4	5.1	0.4	7.8
33	Primary metal industries ----	-	28	18	15.0	261.0	11.4	20.6	187.7	465.6	476.4	928.8	44.5	17.5	357.2
336	Nonferrous foundries-----	-	5	4	0.4	4.5	0.4	0.7	3.6	8.1	8.1	16.1	(D)	0.3	3.6
344	Fabricated structural metal products-----	-	43	13	2.7	37.0	1.9	3.5	24.3	64.9	76.4	143.9	5.1	2.4	31.4
3443	Fabricated plate work (boiler shops)-----	E1	14	6	1.3	17.3	0.8	1.6	11.1	34.4	27.3	58.3	(D)	0.7	13.0
349	Miscellaneous fabricated metal products-----	-	15	8	1.1	15.0	0.8	1.6	10.1	32.2	29.9	63.5	0.9	1.2	21.2
3499	Fabricated metal products, n.e.c.-----	E1	7	3	0.3	3.5	0.2	0.4	2.1	8.8	6.2	14.9	0.3	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Allentown-Bethlehem-Easton, Pa.-N.J., SMSA—Con.														
35	Machinery, except electrical -	-	89	34	6.9	100.2	4.3	8.8	56.5	236.7	218.6	468.6	13.8	5.2	104.8
353	Construction and related machinery -----	-	9	5	1.2	18.1	0.6	1.1	7.7	52.3	27.6	78.1	(D)	1.1	15.9
354	Metalworking machinery -----	-	10	4	0.5	7.2	0.4	0.7	4.4	12.6	9.3	22.1	(D)	(NA)	(NA)
355	Special industry machinery -----	-	12	4	0.4	4.7	0.3	0.5	3.2	16.9	24.4	43.4	(D)	0.7	14.3
356	General industrial machinery -----	-	20	11	3.4	51.5	2.1	4.3	28.7	115.2	137.0	265.6	(D)	(NA)	(NA)
357	Office and computing machines -----	-	3	3	0.9	11.7	0.7	1.5	7.9	27.8	10.8	38.4	(D)	(NA)	(NA)
35	Electric and electronic equipment -----	-	40	21	8.6	126.0	6.9	13.5	92.4	305.4	179.4	479.3	18.5	9.4	204.1
364	Electric lighting and wiring equipment -----	-	8	6	1.4	12.9	1.1	2.2	10.0	27.1	20.1	47.3	(D)	2.1	33.2
38	Instruments and related products -----	-	16	7	1.0	10.6	0.8	1.5	7.4	18.7	6.5	23.0	1.0	0.8	13.0
382	Measuring and controlling devices -----	-	7	4	0.5	5.0	0.4	0.7	3.7	8.5	2.4	9.3	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries ---	-	38	14	2.6	28.9	2.0	4.1	20.7	73.7	56.0	127.2	7.5	(NA)	(NA)
-	Administrative and auxiliary --	-	35	21	9.7	213.6	-	-	-	-	-	-	-	(NA)	(NA)
	Altoona SMSA -----	-	147	63	12.1	134.6	9.6	17.9	96.3	340.8	315.9	648.0	23.5	15.6	234.9
20	Food and kindred products --	-	30	17	1.3	15.0	0.9	1.7	8.0	40.2	70.4	110.2	3.3	1.6	21.0
205	Bakery products -----	-	7	6	0.6	6.6	0.4	0.8	3.9	18.1	12.9	31.0	0.3	0.6	9.3
23	Apparel and other textile products -----	-	10	6	1.2	7.5	1.1	2.0	6.8	13.1	9.0	20.9	0.2	1.5	12.9
26	Paper and allied products ---	-	5	5	1.3	17.6	1.0	2.1	13.3	41.0	54.0	92.4	(D)	1.7	27.2
27	Printing and publishing -----	-	23	4	0.9	10.4	0.6	1.0	6.8	31.9	11.6	43.4	0.4	(NA)	(NA)
32	Stone, clay, and glass products -----	-	12	6	1.1	17.5	0.9	1.9	14.5	43.5	32.2	75.3	2.7	(NA)	(NA)
34	Fabricated metal products ---	-	9	4	0.6	7.9	0.5	1.1	6.6	17.2	9.8	26.9	0.8	0.6	9.8
35	Machinery, except electrical -	-	7	3	1.1	14.9	0.8	1.6	10.4	29.1	24.0	51.2	(D)	(NA)	(NA)
	Binghamton, N.Y.-Pa., SMSA -	-	389	146	39.6	578.1	22.3	42.9	236.3	1 081.2	1 244.8	2 273.4	73.9	36.4	673.5
20	Food and kindred products --	-	34	13	1.1	12.2	0.8	1.5	7.4	41.4	89.8	131.8	2.2	1.0	17.5
23	Apparel and other textile products -----	-	23	14	1.0	7.1	0.9	1.6	5.9	11.3	13.2	23.8	0.3	1.3	9.0
233	Women's and misses' outerwear -----	-	11	9	0.6	3.4	0.5	0.9	3.0	4.6	2.0	6.5	(D)	0.8	4.2
239	Miscellaneous fabricated textile products -----	-	7	3	0.4	2.7	0.3	0.6	2.2	5.4	10.4	15.2	(D)	0.3	3.7
24	Lumber and wood products --	-	44	6	0.6	5.7	0.5	0.9	4.3	8.2	13.5	21.8	0.5	0.6	7.9
25	Furniture and fixtures -----	E2	10	6	1.2	11.3	1.0	1.8	8.6	19.8	20.6	40.0	0.3	1.1	15.7
30	Rubber and miscellaneous plastics products -----	-	20	12	1.1	8.6	0.9	1.7	6.9	28.8	28.2	56.4	2.1	(NA)	(NA)
33	Primary metal industries ----	-	5	4	0.4	5.1	0.4	0.8	3.9	8.6	5.1	13.5	0.6	0.5	5.7
34	Fabricated metal products ---	-	24	12	1.7	21.6	1.3	2.6	14.9	41.7	26.2	66.7	2.0	1.4	20.8
344	Fabricated structural metal products -----	E2	10	4	0.3	4.6	0.2	0.5	3.4	7.6	8.5	16.1	0.4	(NA)	(NA)
346	Metal forgings and stampings -----	E2	4	4	0.5	5.8	0.4	0.7	4.2	10.5	7.1	17.2	0.6	0.4	5.1
35	Machinery, except electrical -	-	51	16	3.8	35.9	3.1	6.0	25.4	59.9	44.8	103.8	3.8	2.0	27.3
357	Office and computing machines -----	E3	4	3	1.5	11.0	1.3	2.7	7.9	16.3	7.6	23.7	0.7	1.0	10.5
3573	Electronic computing equipment -----	E3	4	3	1.5	11.0	1.3	2.7	7.9	16.3	7.6	23.7	0.7	1.0	10.5
359	Miscellaneous machinery, except electrical -----	-	22	6	0.5	5.1	0.5	0.8	3.5	10.0	3.6	13.7	0.6	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	-	22	6	0.5	5.1	0.5	0.8	3.5	10.0	3.6	13.7	0.6	(NA)	(NA)
38	Instruments and related products -----	-	13	6	4.4	64.7	2.4	5.1	31.2	110.4	99.3	217.6	(D)	(NA)	(NA)
-	Administrative and auxiliary --	-	11	9	0.7	8.9	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Erie SMSA -----	-	510	209	42.0	600.7	29.0	55.8	356.5	1 254.8	1 093.8	2 323.7	76.3	42.5	764.8
20	Food and kindred products --	-	32	14	1.8	21.2	1.3	2.4	12.7	62.4	107.5	172.5	4.8	2.0	50.8
203	Preserved fruits and vegetables -----	-	7	4	0.7	7.1	0.6	1.1	5.8	30.8	43.5	77.3	(D)	0.6	25.3
208	Beverages -----	-	7	3	0.3	3.7	0.2	0.3	1.5	9.9	9.1	19.1	0.5	0.3	9.1
24	Lumber and wood products --	-	22	5	0.4	3.7	0.3	0.5	2.6	7.8	21.7	28.0	1.0	0.4	3.9
25	Furniture and fixtures -----	-	14	10	1.6	16.2	1.3	2.7	11.6	30.8	23.2	53.9	1.3	1.4	16.4
2511	Wood household furniture -----	-	4	3	0.5	4.0	0.5	0.9	3.0	6.2	5.8	11.9	(D)	0.4	3.1
27	Printing and publishing -----	E1	43	8	0.9	10.1	0.5	0.9	5.7	21.2	9.2	30.4	(D)	0.9	14.7
30	Rubber and miscellaneous plastics products -----	-	42	27	3.4	40.6	2.5	4.7	23.3	76.7	72.9	148.5	6.4	3.4	53.4
33	Primary metal industries ----	-	26	18	3.6	50.1	2.9	5.5	37.7	81.8	85.1	171.4	7.9	3.5	50.8
332	Iron and steel foundries ----	-	8	8	1.5	20.1	1.2	2.2	14.8	33.4	24.8	58.0	2.8	1.3	18.3
336	Nonferrous foundries -----	-	9	5	0.7	9.8	0.6	1.2	8.1	17.0	10.7	27.6	(D)	(NA)	(NA)
34	Fabricated metal products --	-	88	41	5.5	73.9	4.1	7.5	48.4	150.9	121.9	274.3	10.8	5.8	95.4
342	Cutlery, hand tools, and hardware -----	E1	5	3	0.3	3.2	0.2	0.4	2.0	7.3	3.0	10.4	0.1	(NA)	(NA)
344	Fabricated structural metal products -----	-	26	10	1.6	22.5	1.0	1.8	12.2	46.7	40.0	88.6	2.6	1.5	22.1
345	Screw machine products, bolts, etc. -----	-	11	6	0.6	7.3	0.4	0.8	4.8	13.5	7.6	20.3	1.2	(NA)	(NA)
346	Metal forgings and stampings -----	-	9	8	1.5	20.6	1.2	2.3	15.3	39.4	39.7	78.8	5.2	1.6	27.3
3462	Iron and steel forgings ----	-	3	3	0.4	5.3	0.3	0.5	3.2	12.3	10.1	22.6	(D)	0.5	10.6
3471	Plating and polishing -----	-	14	4	0.3	3.1	0.2	0.4	1.9	5.4	3.1	8.5	0.3	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	16	7	1.1	14.5	0.9	1.6	10.6	27.8	21.1	49.2	1.0	1.0	16.5
3494	Valves and pipe fittings --	-	7	4	0.6	7.4	0.5	0.9	5.4	15.0	13.6	29.2	(D)	0.5	5.6
35	Machinery, except electrical -	-	121	34	4.9	72.5	3.4	7.0	46.9	155.5	137.0	286.6	5.5	5.5	108.9
354	Metalworking machinery --	-	47	11	0.8	14.3	0.6	1.4	9.4	24.2	11.9	34.8	1.3	0.9	13.1
355	Special industry machinery -----	E2	12	5	0.4	5.4	0.3	0.5	3.5	10.4	7.0	17.2	0.2	0.3	5.9
356	General industrial machinery -----	-	17	6	1.1	16.1	0.8	1.6	9.9	42.9	28.9	69.4	1.3	1.9	40.2
36	Electric and electronic equipment -----	-	25	14	4.2	55.7	2.8	5.3	31.3	133.8	74.2	205.0	6.6	3.6	62.7
367	Electronic components and accessories -----	-	13	5	1.4	14.6	0.9	1.8	8.7	23.3	14.9	38.1	(D)	1.3	15.5
38	Instruments and related products -----	-	11	6	3.3	53.0	1.6	3.3	21.9	120.7	75.6	194.2	4.1	(NA)	(NA)
39	Miscellaneous manufacturing industries --	-	17	5	0.4	3.3	0.3	0.6	2.2	14.1	8.8	22.7	0.2	1.5	13.9
--	Administrative and auxiliary --	-	9	5	0.4	8.0	-	-	-	-	-	-	-	(NA)	(NA)
	Harrisburg SMSA -----	-	495	206	40.4	515.8	27.5	52.1	302.8	1 164.2	1 414.5	2 563.5	86.7	40.1	713.6
20	Food and kindred products --	-	60	34	8.0	102.1	5.1	9.7	58.6	404.2	628.3	1 034.3	31.0	8.2	233.2
202	Dairy products -----	-	10	5	0.5	4.7	0.2	0.5	2.2	16.1	22.2	38.2	(D)	0.6	11.1
204	Grain mill products -----	-	9	7	1.0	14.1	0.8	1.6	9.9	117.6	199.0	316.3	(D)	1.0	54.8
205	Bakery products -----	-	10	7	1.0	9.5	0.5	0.8	3.6	21.4	15.5	36.9	1.1	0.9	18.5
2051	Bread, cake, and related products -----	-	10	7	1.0	9.5	0.5	0.8	3.6	21.4	15.5	36.9	1.1	0.9	18.5
23	Apparel and other textile products -----	-	57	46	3.2	20.8	2.9	5.0	17.7	38.6	24.8	63.0	0.7	3.3	27.6
233	Women's and misses' outerwear -----	-	37	32	2.1	14.1	1.9	3.4	11.7	27.2	19.9	46.9	0.6	2.3	20.7
26	Paper and allied products --	-	9	6	0.9	11.2	0.7	1.3	7.0	25.1	39.6	63.3	3.3	(NA)	(NA)
27	Printing and publishing -----	E1	98	17	1.9	21.7	1.2	2.1	12.4	46.0	26.1	72.0	1.3	1.8	31.1
275	Commercial printing -----	E1	58	9	0.8	8.4	0.6	1.1	6.4	15.1	11.3	26.3	0.5	0.8	10.1
2752	Commercial printing, lithographic -----	E1	23	6	0.5	6.0	0.4	0.8	4.6	10.2	6.0	16.1	(D)	0.5	6.1
31	Leather and leather products -----	-	9	8	1.9	12.5	1.8	3.3	11.6	23.2	23.8	46.0	1.4	2.2	19.0
35	Machinery, except electrical -	-	58	20	3.4	40.6	2.6	4.9	27.4	70.3	96.2	160.5	5.0	2.0	44.6
36	Electric and electronic equipment -----	-	26	15	3.2	34.0	2.4	4.5	21.4	91.7	53.0	145.3	2.6	4.0	69.3
367	Electronic components and accessories -----	-	17	10	2.1	21.8	1.6	3.1	13.5	49.3	24.6	73.8	2.1	1.8	24.7
37	Transportation equipment --	-	9	6	2.3	33.1	1.8	3.5	24.2	67.4	101.2	167.0	(D)	2.4	51.8
--	Administrative and auxiliary --	-	27	14	4.3	73.5	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972		
			E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
202	Johnstown SMSA -----	-	293	101	20.8	290.9	16.7	29.0	214.2	463.5	593.1	1 092.3	27.3	23.1	336.9	
	Dairy products -----	-	8	4	0.4	5.1	0.2	0.4	1.9	13.1	39.1	51.8	(D)	0.4	6.2	
23	Apparel and other textile products -----	E2	30	27	3.2	18.6	3.0	5.0	16.6	29.2	16.6	44.8	(D)	3.5	27.2	
232	Men's and boys' furnishings -----	-	6	6	0.9	5.3	0.9	1.5	5.0	7.7	6.0	13.3	(D)	1.0	12.9	
233	Women's and misses' outerwear -----	E5	12	11	0.8	4.1	0.8	1.2	3.5	5.9	1.7	7.6	(D)	1.2	5.6	
2335	Women's and misses' dresses -----	E6	9	8	0.5	2.8	0.4	0.7	2.3	4.3	1.6	5.9	(D)	1.2	5.6	
2339	Women's and misses' outerwear, n.e.c. -----	-	3	3	0.3	1.3	0.3	0.4	1.2	1.6	0.1	1.7	(D)	(NA)	(NA)	
234	Women's and children's undergarments -----	E3	8	7	1.2	7.2	1.1	1.8	6.5	11.7	4.7	15.8	(D)	1.1	6.9	
24	Lumber and wood products -----	E2	66	5	0.5	5.0	0.4	0.9	3.8	9.9	10.3	20.1	1.1	(NA)	(NA)	
242	Sawmills and planing mills -----	E2	39	2	0.3	3.1	0.3	0.6	2.3	6.8	5.5	12.2	0.8	(NA)	(NA)	
27	Printing and publishing -----	-	26	5	0.5	5.7	0.3	0.6	3.4	10.7	4.7	15.4	1.0	0.5	7.7	
32	Stone, clay, and glass products -----	E2	27	9	0.5	6.0	0.4	0.8	4.6	13.5	11.8	25.3	1.4	0.5	8.6	
34	Fabricated metal products -----	-	23	11	0.7	7.1	0.6	1.2	5.1	17.6	23.8	38.4	1.0	0.4	4.1	
35	Machinery, except electrical -----	E1	30	8	0.7	9.0	0.5	1.0	5.9	20.2	15.9	35.2	1.1	(NA)	(NA)	
	Lancaster SMSA -----	-	770	340	56.4	693.6	41.0	80.0	425.4	1 492.5	1 852.1	3 304.8	117.7	53.0	953.0	
20	Food and kindred products -----	-	104	39	5.2	57.6	3.9	7.7	37.2	136.3	503.8	633.5	45.2	5.0	75.7	
201	Meat products -----	-	12	6	1.8	17.7	1.6	3.1	13.8	25.4	104.5	128.6	(D)	1.4	16.7	
202	Dairy products -----	-	15	4	0.6	7.9	0.3	0.6	3.3	22.8	57.0	79.6	(D)	0.9	16.5	
204	Grain mill products -----	-	23	7	0.5	7.8	0.3	0.7	4.0	18.9	136.4	154.5	(D)	0.6	14.3	
205	Bakery products -----	-	19	6	0.5	4.4	0.4	0.7	3.0	9.1	11.4	20.4	(D)	0.5	7.3	
2052	Cookies and crackers -----	-	8	3	0.3	2.9	0.3	0.5	2.2	5.5	7.3	12.7	(D)	0.3	4.0	
206	Sugar and confectionery products -----	-	14	8	0.9	12.4	0.7	1.4	8.9	38.7	163.7	198.4	(D)	0.7	10.6	
209	Miscellaneous foods and kindred products -----	-	9	5	0.5	4.8	0.3	0.8	2.8	15.0	18.5	33.5	(D)	0.5	7.6	
2099	Food preparations, n.e.c. -----	-	9	5	0.5	4.8	0.3	0.8	2.8	15.0	18.5	33.5	(D)	0.5	7.6	
22	Textile mill products -----	-	17	12	2.5	26.0	2.2	4.2	20.5	54.3	124.5	176.7	2.1	2.4	35.1	
23	Apparel and other textile products -----	E1	59	50	5.9	41.1	5.0	8.8	31.1	69.8	51.5	120.6	1.3	5.6	51.0	
232	Men's and boys' furnishings -----	-	5	5	0.6	3.6	0.6	1.0	3.2	5.8	5.1	10.9	(D)	0.7	6.2	
233	Women's and misses' outerwear -----	E5	14	11	0.8	5.4	0.7	1.2	4.6	8.8	4.9	13.8	(D)	0.6	5.0	
234	Women's and children's undergarments -----	E1	17	16	2.4	17.0	1.8	3.3	11.2	24.1	20.0	44.2	(D)	2.1	22.1	
2341	Women's and children's underwear -----	E1	17	16	2.4	17.0	1.8	3.3	11.2	24.1	20.0	44.2	(D)	2.1	22.1	
236	Children's outerwear -----	-	10	10	1.1	7.3	1.0	1.8	6.4	18.9	12.5	30.8	(D)	1.3	9.9	
24	Lumber and wood products -----	-	50	17	1.6	17.0	1.1	2.2	10.8	35.6	55.8	90.9	1.4	1.5	27.5	
243	Millwork, plywood, and structural members -----	-	22	7	0.8	8.1	0.6	1.1	5.2	14.8	13.5	28.2	0.6	0.5	7.6	
245	Wood buildings and mobile homes -----	-	8	6	0.5	5.9	0.4	0.6	3.8	14.2	30.9	45.4	0.3	0.7	16.2	
2451	Mobile homes -----	-	5	5	0.4	5.5	0.3	0.6	3.4	13.0	29.5	42.8	0.3	0.7	16.2	
25	Furniture and fixtures -----	-	18	8	1.1	12.2	0.9	1.7	8.7	22.6	24.2	46.6	0.8	1.2	18.4	
251	Household furniture -----	E1	12	5	0.7	8.0	0.6	1.1	5.6	15.3	17.4	32.6	0.4	0.9	14.0	
27	Printing and publishing -----	-	103	33	3.5	45.8	2.7	5.3	30.8	105.0	76.1	179.3	4.2	3.1	48.0	
2711	Newspapers -----	-	19	5	0.7	8.0	0.5	0.8	4.0	17.1	7.0	24.1	0.7	0.7	11.6	
275	Commercial printing -----	-	49	17	2.2	29.7	1.7	3.6	21.5	62.4	53.3	115.1	2.4	1.8	24.8	
28	Chemicals and allied products -----	-	18	6	1.1	12.4	0.8	1.5	8.9	83.5	42.4	126.9	1.2	(NA)	(NA)	
30	Rubber and miscellaneous plastics products -----	-	25	9	1.5	16.9	1.2	2.5	12.4	46.6	53.4	98.0	8.1	1.2	25.6	
31	Leather and leather products -----	-	19	12	2.0	14.6	1.7	3.2	11.2	23.0	21.3	42.4	0.9	2.0	17.2	
314	Footwear, except rubber -----	-	13	12	2.0	14.5	1.7	3.2	11.1	22.9	21.2	42.2	(D)	(NA)	(NA)	
3149	Footwear, except rubber, n.e.c. -----	-	6	6	0.8	5.9	0.7	1.3	4.3	7.4	6.8	14.6	(D)	0.9	7.8	
32	Stone, clay, and glass products -----	-	27	11	2.1	27.2	1.6	3.0	18.9	63.7	46.7	110.8	3.7	2.3	46.5	
33	Primary metal industries -----	-	30	17	3.0	41.0	2.5	4.8	30.0	96.1	226.3	318.1	8.8	2.7	37.1	
332	Iron and steel foundries -----	-	9	7	1.3	14.3	1.1	2.2	11.4	24.7	11.8	36.4	0.9	1.2	14.2	
3322	Malleable iron foundries -----	-	4	4	1.1	12.1	0.9	1.8	9.6	21.8	9.0	30.6	0.7	0.9	11.2	

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Lancaster SMSA—Con.														
34	Fabricated metal products ---	-	72	41	6.5	80.9	5.2	10.2	59.4	178.1	177.3	347.0	10.0	6.0	104.0
342	Cutlery, hand tools, and hardware ---	-	8	6	1.1	11.8	0.8	1.5	7.8	27.8	22.6	49.5	1.2	1.2	19.0
344	Fabricated structural metal products ---	-	21	12	0.8	11.4	0.6	1.3	6.9	22.6	49.4	71.2	1.3	0.7	12.4
3444	Sheet metal work ---	-	7	5	0.4	6.8	0.3	0.7	4.0	12.9	33.2	46.4	0.8	0.3	6.5
345	Screw machine products, bolts, etc. ---	-	12	7	0.6	9.0	0.5	1.0	6.9	17.6	10.6	27.8	(D)	0.7	11.5
349	Miscellaneous fabricated metal products ---	-	11	4	1.9	24.6	1.6	3.0	18.0	50.8	29.1	75.6	(D)	1.8	29.6
35	Machinery, except electrical ---	-	104	27	6.3	98.4	3.5	7.4	48.2	200.8	123.9	313.4	7.2	4.8	85.1
353	Construction and related machinery ---	-	9	7	0.8	10.6	0.5	1.1	6.8	31.7	19.7	49.4	0.9	0.7	11.3
355	Special industry machinery ---	-	10	1	0.4	4.4	0.3	0.6	3.0	14.6	8.5	23.3	0.3	(NA)	(NA)
356	General industrial machinery ---	-	12	6	0.8	10.0	0.6	1.3	7.6	21.9	14.5	35.9	0.7	0.6	12.6
359	Miscellaneous machinery, except electrical ---	E2	30	4	0.4	4.7	0.3	0.6	3.4	8.3	6.0	14.2	0.6	0.3	5.0
3599	Machinery, except electrical, n.e.c. ---	E2	30	4	0.4	4.7	0.3	0.6	3.4	8.3	6.0	14.2	0.6	0.3	5.0
36	Electric and electronic equipment ---	-	20	12	5.5	73.4	3.9	7.8	40.2	129.7	77.9	210.8	7.6	5.5	142.5
37	Transportation equipment ---	-	21	10	1.2	13.9	0.9	1.8	9.4	30.9	53.1	83.2	0.9	1.0	16.7
38	Instruments and related products ---	-	11	7	0.9	9.7	0.6	1.2	5.3	13.3	22.6	39.2	0.3	0.8	9.4
394	Toys and sporting goods ---	-	12	3	0.4	2.6	0.3	0.5	1.9	5.4	7.1	13.7	(D)	0.6	8.2
	Northeast Pennsylvania SMSA		1 266	654	70.9	685.0	56.4	101.4	462.3	1 327.8	1 293.9	2 583.0	93.5	82.8	1 024.2
201	Meat products ---	E1	21	11	0.7	6.5	0.6	1.2	4.6	12.0	64.0	75.7	1.3	0.5	5.8
2011	Meat packing plants ---	-	11	4	0.3	3.1	0.3	0.6	2.2	5.5	45.3	50.5	0.9	(NA)	(NA)
202	Dairy products ---	E1	19	10	0.5	4.6	0.2	0.4	2.0	7.2	23.7	30.9	0.7	0.7	4.1
2026	Fluid milk ---	E1	14	7	0.3	3.8	0.1	0.3	1.5	6.0	19.4	25.3	0.7	0.6	3.1
205	Bakery products ---	E1	23	5	0.6	6.2	0.4	0.7	4.4	17.3	13.0	30.3	0.8	1.4	23.3
2051	Bread, cake, and related products ---	E1	23	5	0.6	6.2	0.4	0.7	4.4	17.3	13.0	30.3	0.8	1.4	23.3
208	Beverages ---	E1	21	8	0.6	7.3	0.3	0.6	3.4	14.0	24.6	38.9	0.9	0.8	15.0
22	Textile mill products ---	-	46	34	4.1	34.0	3.5	6.5	26.6	61.1	103.7	163.6	3.8	6.5	67.5
23	Apparel and other textile products ---	E2	401	298	20.4	133.6	18.7	30.6	112.6	205.3	89.9	297.1	3.2	25.1	188.0
2311	Men's and boys' suits and coats ---	-	21	15	1.9	17.1	1.7	3.3	14.6	22.5	12.2	34.8	0.7	1.3	10.9
232	Men's and boys' furnishings ---	-	29	23	2.7	18.5	2.5	3.9	15.4	27.6	16.9	45.1	0.3	4.3	34.5
2327	Men's and boys' separate trousers ---	-	13	10	1.3	9.2	1.2	2.0	7.4	12.3	5.4	17.6	(D)	1.8	13.1
233	Women's and misses' outerwear ---	E3	284	217	13.3	81.1	12.3	19.7	69.0	118.0	35.9	155.4	1.8	16.1	116.1
2331	Women's and misses' blouses and waists ---	-	29	27	1.7	9.5	1.6	2.6	8.5	18.5	3.6	21.8	0.5	1.4	9.6
2335	Women's and misses' dresses ---	E4	229	170	10.0	61.6	9.2	14.6	51.7	86.1	29.4	117.2	1.1	13.1	96.5
2337	Women's and misses' suits and coats ---	E1	8	8	0.6	3.8	0.6	0.9	3.4	5.0	0.4	5.4	(Z)	0.6	3.6
2339	Women's and misses' outerwear, n.e.c. ---	E3	18	12	1.0	6.2	0.9	1.6	5.4	8.5	2.4	11.0	0.1	1.1	6.4
234	Women's and children's undergarments ---	-	8	6	0.3	2.0	0.3	0.5	1.7	5.9	0.5	6.3	(Z)	0.6	3.6
236	Children's outerwear ---	E2	26	21	1.2	7.1	1.1	1.7	6.1	12.1	8.8	20.8	0.1	1.9	15.3
2361	Children's dresses and blouses ---	E3	19	17	0.9	4.5	0.8	1.2	3.7	6.1	2.8	8.9	(Z)	1.5	10.5
239	Miscellaneous fabricated textile products ---	-	22	8	0.6	5.2	0.5	0.9	3.9	14.5	12.1	26.5	0.1	0.4	5.4
24	Lumber and wood products ---	E1	67	19	1.1	10.9	0.9	1.8	8.0	25.4	38.7	64.0	1.6	1.4	18.9
243	Millwork, plywood, and structural members ---	-	20	6	0.3	3.0	0.3	0.4	2.2	7.0	6.4	13.4	0.1	0.3	4.2
2434	Wood kitchen cabinets ---	-	14	6	0.3	2.7	0.2	0.4	2.0	6.6	5.8	12.4	(D)	(NA)	(NA)
245	Wood buildings and mobile homes ---	E1	8	6	0.4	4.4	0.3	0.6	3.1	9.8	18.4	28.3	0.3	0.8	11.6
25	Furniture and fixtures ---	-	28	12	1.3	12.7	1.1	1.9	9.8	24.9	24.9	49.3	0.2	2.5	29.1
251	Household furniture ---	-	15	7	0.6	5.2	0.5	0.9	3.5	8.5	13.4	22.2	(Z)	1.8	19.5
2512	Upholstered household furniture ---	-	6	5	0.4	3.7	0.3	0.6	2.5	6.5	9.3	15.9	(D)	1.2	14.3
26	Paper and allied products ---	-	25	16	2.2	25.8	1.7	3.3	18.3	65.7	97.3	162.4	6.9	1.8	31.3
27	Printing and publishing ---	-	113	26	3.6	44.2	2.5	5.0	28.7	78.7	33.6	111.7	4.0	4.0	57.5
2711	Newspapers ---	-	21	6	1.2	17.0	0.7	1.2	8.9	28.9	7.2	36.1	0.7	1.3	20.3
273	Books ---	-	7	2	0.4	5.0	0.3	0.7	3.8	9.6	6.3	15.9	(D)	0.9	8.1
275	Commercial printing ---	E1	67	16	1.2	13.3	0.9	1.8	9.7	26.5	13.4	39.3	2.0	1.7	25.1
2752	Commercial printing, lithographic ---	E1	30	12	0.9	10.5	0.7	1.4	7.7	19.0	9.3	28.3	(D)	1.1	16.2

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Northeast Pennsylvania SMSA—Con.														
28	Chemicals and allied products -----	-	26	10	0.9	10.1	0.6	1.1	6.2	41.1	37.6	82.9	2.8	1.1	38.0
284	Soaps, cleaners, and toilet goods -----	-	9	4	0.3	3.4	0.2	0.5	2.4	35.9	21.3	57.8	0.8	0.6	28.3
30	Rubber and miscellaneous plastics products -----	E1	38	20	3.1	30.6	2.5	4.8	22.7	64.1	92.8	156.4	4.1	2.7	35.3
3079	Miscellaneous plastics products -----	-	28	13	1.9	21.2	1.4	2.9	15.4	48.6	80.3	128.7	(D)	1.8	27.9
31	Leather and leather products -----	E2	15	11	2.1	14.4	1.8	3.1	10.8	21.6	21.3	42.7	0.4	3.8	31.6
3142	House slippers -----	E1	4	3	0.8	5.5	0.7	1.2	4.2	7.7	7.3	14.9	(D)	(NA)	(NA)
3144	Women's footwear, except athletic -----	-	7	6	0.9	5.3	0.8	1.3	4.2	9.0	9.4	18.6	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	48	14	2.6	32.1	2.1	4.1	24.2	79.6	54.1	134.1	5.8	1.7	31.9
327	Concrete, gypsum, and plaster products -----	-	31	6	0.4	4.8	0.3	0.6	3.2	9.6	13.6	23.2	1.1	0.4	6.7
3273	Ready-mixed concrete -----	-	13	4	0.3	3.3	0.2	0.4	2.3	6.8	10.8	17.6	0.9	(NA)	(NA)
33	Primary metal industries ----	-	23	10	1.0	15.1	0.8	1.7	10.7	23.6	44.5	69.4	(D)	1.0	17.4
332	Iron and steel foundries ----	-	6	3	0.3	4.3	0.3	0.5	3.6	7.2	3.5	10.6	(D)	0.3	3.3
335	Nonferrous rolling and drawing -----	-	3	3	0.5	6.7	0.4	0.7	4.8	7.7	20.3	28.7	(D)	(NA)	(NA)
34	Fabricated metal products ----	-	90	40	6.2	77.4	4.5	8.5	49.8	191.1	140.1	299.3	10.9	6.6	91.8
344	Fabricated structural metal products -----	-	50	15	2.5	32.0	1.7	3.3	20.5	88.0	51.4	107.8	2.9	1.9	37.0
3442	Metal doors, sash, and trim -----	-	10	2	0.4	4.2	0.3	0.5	2.3	5.5	7.9	13.3	(D)	0.4	6.2
3443	Fabricated plate work (boiler shops) -----	-	9	4	1.3	18.4	0.9	1.7	11.7	65.0	29.7	63.4	(D)	1.1	24.7
3446	Architectural metal work -----	-	12	3	0.4	5.1	0.3	0.6	3.7	8.9	4.6	13.5	0.3	(NA)	(NA)
346	Metal forgings and stampings -----	-	10	9	1.0	12.3	0.7	1.5	8.6	28.5	26.4	53.9	4.4	0.9	15.3
349	Miscellaneous fabricated metal products -----	-	13	8	1.0	12.3	0.7	1.3	7.1	25.6	24.0	50.9	(D)	0.8	11.6
35	Machinery, except electrical -	-	83	29	2.9	35.9	2.1	4.2	24.1	57.1	68.9	125.5	6.0	3.4	59.8
353	Construction and related machinery -----	-	12	8	0.6	7.2	0.4	0.8	4.5	13.0	17.1	29.4	1.0	0.5	5.7
3532	Mining machinery -----	-	5	3	0.3	3.3	0.2	0.3	1.9	5.6	8.9	14.4	(D)	(NA)	(NA)
356	General industrial machinery -----	-	9	6	1.3	17.2	1.0	2.0	12.1	21.6	34.9	57.8	2.9	0.8	9.8
359	Miscellaneous machinery, except electrical -----	E1	32	5	0.3	3.3	0.2	0.4	2.3	6.2	5.7	12.1	0.2	0.3	3.7
3599	Machinery, except electrical, n.e.c. -----	E1	32	5	0.3	3.3	0.2	0.4	2.3	6.2	5.7	12.1	0.2	0.3	3.7
36	Electric and electronic equipment -----	-	35	24	6.5	74.5	5.4	10.0	54.9	164.4	138.8	299.4	21.1	7.2	124.7
364	Electric lighting and wiring equipment -----	-	13	8	1.2	12.4	1.0	1.9	9.6	22.0	27.3	49.1	(D)	1.2	16.4
3644	Noncurrent-carrying wiring devices -----	-	4	4	0.6	7.2	0.5	1.0	5.7	14.6	15.2	29.9	(D)	0.6	8.6
37	Transportation equipment ----	-	22	13	1.6	21.8	1.4	2.6	16.1	30.4	69.3	98.9	0.5	1.5	24.3
38	Instruments and related products -----	E4	13	4	1.3	14.4	1.1	2.0	11.3	30.2	17.6	45.1	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries ----	-	43	15	1.9	18.4	1.5	2.7	11.8	39.5	40.3	77.2	1.4	3.4	42.1
399	Miscellaneous manufactures -----	-	25	5	0.6	5.7	0.5	0.9	3.8	11.2	11.0	22.4	0.5	1.5	12.3
3995	Burial caskets -----	-	8	4	0.4	3.8	0.4	0.7	3.0	7.4	8.3	15.8	(D)	(NA)	(NA)
-	Administrative and auxiliary --	-	30	20	2.4	27.9	-	-	-	-	-	-	-	(NA)	(NA)
	Philadelphia, Pa.-N.J., SMSA -	-	7 946	2 909	451.8	6 364.7	293.5	569.0	3 510.6	13 429.6	18 223.2	31 507.5	723.4	495.7	9 189.9
20	Food and kindred products --	-	495	227	39.1	525.8	27.6	54.3	331.6	1 452.2	2 857.6	4 300.6	97.8	40.5	919.3
201	Meat products -----	E1	96	46	7.4	104.8	5.7	11.3	72.9	246.2	1 027.4	1 268.6	24.4	6.8	131.9
2013	Sausages and other prepared meats -----	E1	46	25	4.2	61.4	3.1	6.0	41.6	158.8	479.4	636.6	16.2	3.6	76.4
2017	Poultry and egg processing -----	-	5	5	0.9	9.4	0.7	1.5	6.5	23.6	89.4	113.0	2.3	0.5	12.0
202	Dairy products -----	-	50	19	2.4	35.3	1.3	2.7	17.4	89.0	250.9	339.0	5.0	4.1	128.7
2026	Fluid milk -----	-	31	14	1.5	21.3	0.7	1.4	9.1	56.0	169.4	224.7	3.6	2.7	83.3
203	Preserved fruits and vegetables -----	-	53	25	6.1	72.5	4.7	8.9	49.1	223.4	319.7	543.2	11.6	7.3	157.8
2033	Canned fruits and vegetables -----	E1	23	10	1.7	14.4	1.5	3.0	11.7	40.9	90.5	131.4	(D)	1.9	37.2
2038	Frozen specialties -----	-	11	7	1.9	24.0	1.2	2.1	12.7	70.4	58.1	128.7	3.6	2.0	42.0
204	Grain mill products -----	-	21	7	0.9	11.8	0.6	1.2	8.0	57.8	98.4	157.2	2.6	0.9	19.6
205	Bakery products -----	-	101	41	9.4	132.1	6.4	12.8	82.0	341.2	223.8	565.0	12.5	8.7	199.3
2051	Bread, cake, and related products -----	-	84	38	6.5	90.3	3.9	7.6	46.8	205.0	135.5	340.4	(D)	5.6	105.6
2052	Cookies and crackers ----	-	17	5	2.9	41.8	2.5	5.3	35.2	136.2	88.2	224.6	(D)	3.1	93.6

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Philadelphia, Pa.-N.J., SMSA—Con.														
20	Food and kindred products—Con.														
206	Sugar and confectionery products -----	-	51	26	5.6	66.9	4.3	8.4	46.9	149.8	325.4	473.8	12.5	5.1	117.0
2065	Confectionery products -----	-	39	18	1.6	13.6	1.3	2.4	9.7	33.7	49.7	82.3	1.1	1.6	23.9
207	Fats and oils -----	-	14	10	0.7	10.1	0.4	0.9	5.8	45.1	116.2	160.6	1.8	0.6	29.7
208	Beverages -----	-	48	27	4.2	66.3	2.3	4.5	32.4	200.5	265.9	463.5	19.4	4.9	104.9
2086	Bottled and canned soft drinks -----	-	27	15	2.1	34.1	0.7	1.5	9.1	77.7	147.2	223.4	4.5	2.3	41.8
2087	Flavoring extracts and sirups, n.e.c. -----	E2	13	6	0.5	7.0	0.3	0.7	4.0	24.8	27.1	51.1	(D)	(NA)	(NA)
209	Miscellaneous foods and kindred products -----	-	61	26	2.4	25.9	1.9	3.6	16.9	99.2	230.0	329.7	8.0	2.0	30.4
2099	Food preparations, n.e.c. -----	E1	36	14	1.1	12.2	0.8	1.7	7.3	44.0	85.3	129.3	4.2	0.8	10.0
22	Textile mill products -----	E1	254	138	16.9	149.6	14.5	26.7	110.7	298.4	359.3	650.2	10.6	20.5	251.9
2231	Weaving and finishing mills, wool -----	E4	9	4	0.3	2.1	0.2	0.3	1.5	3.1	1.4	4.5	0.1	0.7	7.7
2241	Narrow fabric mills -----	E1	10	5	0.3	2.7	0.3	0.6	2.1	5.7	5.2	10.8	0.2	0.6	5.8
225	Knitting mills -----	E1	92	56	9.0	75.1	7.8	13.5	55.4	155.6	181.6	332.1	5.3	10.6	122.4
2253	Knit outerwear mills -----	E2	39	32	6.4	52.6	5.5	9.3	37.5	105.7	119.9	221.1	3.3	5.9	70.1
2257	Circular knit fabric mills -----	E6	15	7	0.3	2.8	0.2	0.5	2.1	4.1	3.4	7.7	0.2	1.1	16.3
2269	Finishing plants, n.e.c. -----	-	18	12	0.8	7.1	0.7	1.3	5.1	11.0	17.6	28.3	0.8	0.9	9.7
228	Yarn and thread mills -----	E1	28	23	1.9	15.3	1.7	3.3	12.3	26.9	38.0	64.8	1.5	1.7	16.2
2281	Yarn mills, except wool -----	E4	8	5	0.6	5.3	0.6	1.1	4.4	11.3	15.4	26.3	(D)	(NA)	(NA)
229	Miscellaneous textile goods -----	E1	51	18	2.2	23.8	1.7	3.4	15.7	45.5	51.5	96.6	2.1	2.5	37.0
23	Apparel and other textile products -----	-	624	325	33.6	275.9	28.7	49.8	201.8	546.8	553.7	1 078.0	8.0	46.1	465.7
2311	Men's and boys' suits and coats -----	-	94	66	12.0	111.6	10.3	18.5	85.1	202.5	171.8	366.2	2.3	17.2	193.5
233	Women's and misses' outerwear -----	E1	201	117	10.2	76.7	8.5	14.0	52.2	190.0	202.8	377.8	3.0	12.5	116.5
2331	Women's and misses' blouses and waists -----	-	20	16	1.5	13.1	1.1	1.6	7.0	50.8	57.9	97.4	0.7	2.3	30.9
2335	Women's and misses' dresses -----	E2	106	51	4.3	30.5	3.8	6.5	22.2	60.1	46.5	105.4	1.1	6.1	47.4
2337	Women's and misses' suits and coats -----	-	33	26	2.0	15.5	1.5	2.5	10.2	39.3	46.2	84.3	0.7	1.7	11.0
2339	Women's and misses' outerwear, n.e.c. -----	-	42	24	2.4	17.6	2.1	3.4	12.8	39.8	52.1	90.7	0.4	2.5	27.2
234	Women's and children's undergarments -----	-	11	8	0.8	5.4	0.7	1.3	3.8	11.9	11.1	23.4	0.1	1.3	10.7
236	Children's outerwear -----	-	31	24	2.5	18.7	2.2	3.8	14.7	38.6	28.5	69.1	0.3	3.2	31.7
2361	Children's dresses and blouses -----	-	19	13	1.5	10.2	1.3	2.3	7.9	27.6	20.9	48.1	0.1	1.9	19.8
2369	Children's outerwear, n.e.c. -----	-	7	7	0.7	5.2	0.5	0.8	4.0	4.2	5.5	12.3	(D)	0.4	3.1
238	Miscellaneous apparel and accessories -----	E1	24	8	0.8	5.7	0.7	1.3	4.6	9.6	11.5	20.9	0.7	1.3	12.3
2389	Apparel and accessories, n.e.c. -----	E1	11	4	0.4	3.2	0.4	0.7	2.6	5.4	7.7	12.8	(D)	0.5	4.2
239	Miscellaneous fabricated textile products -----	E1	165	46	3.6	30.5	3.1	5.5	21.1	53.8	54.8	107.9	1.1	4.7	42.7
2391	Curtains and draperies -----	E1	34	7	0.5	3.6	0.4	0.7	2.4	5.6	6.8	12.2	0.1	0.7	5.7
2392	House furnishings, n.e.c. -----	E2	35	11	0.6	4.3	0.5	1.0	3.0	8.4	11.6	20.0	0.2	0.7	5.5
2395	Pleating and stitching -----	E1	17	3	0.3	2.6	0.3	0.3	1.7	4.8	2.2	7.0	(D)	(NA)	(NA)
2396	Automotive and apparel trimmings -----	-	26	9	0.6	6.3	0.5	1.0	4.6	11.3	13.7	25.2	0.2	0.9	11.6
2399	Fabricated textile products, n.e.c. -----	-	24	11	1.2	11.2	1.0	2.0	7.6	18.8	16.4	34.4	0.4	1.6	12.5
25	Furniture and fixtures -----	-	229	80	8.0	86.6	6.3	12.2	60.7	171.2	170.9	342.3	7.4	8.7	119.3
251	Household furniture -----	E1	113	35	3.2	30.0	2.7	5.1	20.9	53.6	73.2	128.2	1.2	3.2	43.6
2511	Wood household furniture -----	E3	48	7	0.6	4.9	0.5	1.0	3.7	10.1	11.4	20.0	0.4	0.4	4.3
2512	Upholstered household furniture -----	E3	23	5	0.4	3.5	0.3	0.6	2.5	5.4	5.5	10.9	0.2	0.5	5.8
2514	Metal household furniture -----	E1	19	12	1.6	14.5	1.3	2.6	10.4	21.5	33.7	58.5	0.2	1.9	24.8
2515	Mattresses and bedsprings -----	-	18	9	0.5	5.7	0.4	0.7	3.4	14.3	18.9	32.8	0.2	0.5	8.4
252	Office furniture -----	-	17	7	1.6	20.9	1.3	2.4	14.1	42.8	32.7	74.6	1.2	1.9	27.1
254	Partitions and fixtures -----	-	62	26	2.2	25.8	1.7	3.5	19.5	55.7	50.2	105.7	4.7	2.7	37.4
2541	Wood partitions and fixtures -----	-	40	12	0.6	6.8	0.5	0.9	4.9	12.0	10.6	22.5	(D)	1.0	15.1
2542	Metal partitions and fixtures -----	-	22	14	1.6	18.9	1.2	2.6	14.6	43.7	39.6	83.2	(D)	1.7	22.3
259	Miscellaneous furniture and fixtures -----	E1	31	10	0.8	8.8	0.5	1.0	5.4	16.8	12.6	29.2	(D)	0.6	8.2
2599	Furniture and fixtures, n.e.c. -----	-	22	9	0.7	8.3	0.5	0.9	5.1	15.8	11.6	27.3	0.3	0.5	7.3
26	Paper and allied products -----	-	241	134	17.4	244.3	13.5	26.0	168.9	621.4	793.2	1 409.0	34.3	18.8	385.6

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Philadelphia, Pa.-N.J., SMSA—Con.														
26	Paper and allied products—Con.														
264	Miscellaneous converted paper products -----	-	112	45	7.4	100.8	5.6	10.0	67.6	372.7	299.7	668.4	12.4	6.0	169.2
2641	Paper coating and glazing -----	-	25	11	1.6	24.5	1.1	2.4	15.2	84.9	86.9	169.4	2.3	0.9	37.8
2643	Bags, except textile bags -----	E3	14	6	1.3	16.8	0.9	1.9	10.7	36.6	52.3	88.3	1.8	1.2	24.3
2649	Converted paper products, n.e.c. -----	-	29	13	0.9	10.1	0.6	1.2	5.9	25.1	29.9	54.8	1.9	0.9	14.3
265	Paperboard containers and boxes -----	-	107	70	7.0	92.1	5.4	10.7	61.8	159.8	273.3	432.1	8.8	8.3	128.7
2651	Folding paperboard boxes -----	-	34	21	2.3	29.5	1.9	3.7	20.2	52.1	76.0	126.6	3.7	2.5	35.6
2652	Setup paperboard boxes -----	-	11	10	0.6	6.2	0.6	1.0	4.7	9.2	8.7	17.7	0.7	0.9	10.2
2653	Corrugated and solid fiber boxes -----	-	39	26	2.9	43.2	2.1	4.2	26.9	74.4	119.6	194.3	2.9	3.5	59.1
2654	Sanitary food containers -----	-	8	5	0.5	5.7	0.4	0.7	4.1	9.5	40.3	49.8	0.8	0.7	14.0
2655	Fiber cans, drums, and similar products -----	-	15	8	0.6	7.5	0.5	1.1	5.9	14.8	28.7	43.7	0.8	0.6	9.8
27	Printing and publishing -----	-	1 131	254	37.5	487.1	22.0	39.6	265.2	1 076.1	639.9	1 718.1	53.6	37.6	681.4
2711	Newspapers -----	-	94	29	10.0	128.0	4.0	6.2	50.5	225.7	97.4	323.1	21.6	10.0	163.4
2721	Periodicals -----	-	53	14	3.4	40.9	0.6	1.2	6.0	248.8	151.8	400.4	1.0	3.1	129.0
273	Books -----	-	60	18	3.7	49.2	2.1	3.9	24.3	120.6	67.6	186.6	2.5	3.5	61.1
2731	Book publishing -----	-	29	8	2.6	35.5	1.1	2.0	13.9	95.4	47.9	141.8	1.4	2.6	50.7
2732	Book printing -----	-	31	10	1.2	13.6	1.0	1.9	10.4	25.1	19.7	44.8	1.2	0.9	10.5
275	Commercial printing -----	E1	690	111	12.4	169.8	9.5	17.3	118.6	283.1	238.4	525.7	19.8	14.1	226.3
2751	Commercial printing, letterpress -----	E2	370	31	3.6	39.3	2.7	4.9	25.6	73.5	53.3	126.9	3.4	4.2	65.3
2752	Commercial printing, lithographic -----	E1	281	69	5.9	88.7	4.5	8.3	60.8	140.6	106.1	251.8	6.2	7.0	114.4
2753	Engraving and plate printing -----	-	28	6	0.6	7.4	0.5	0.9	5.1	14.4	8.4	22.3	5.0	0.4	7.0
2754	Commercial printing, gravure -----	-	11	5	2.2	34.4	1.8	3.2	27.2	54.6	70.6	124.8	5.3	2.5	39.6
2761	Manifold business forms -----	-	31	19	1.4	19.3	1.0	2.2	12.6	52.2	37.3	89.1	2.7	1.2	21.5
278	Blankbooks and bookbinding -----	-	57	27	2.2	23.1	1.8	3.4	17.3	40.5	14.5	54.8	1.6	2.2	24.7
2782	Blankbooks and looseleaf binders -----	-	17	11	1.0	10.3	0.8	1.5	7.6	20.8	9.5	30.2	1.2	0.7	9.8
2789	Bookbinding and related work -----	E1	40	16	1.2	12.7	1.0	1.9	9.7	19.7	4.9	24.6	0.4	1.4	15.0
279	Printing trade services -----	-	97	26	3.0	42.6	2.3	4.2	31.3	69.2	16.0	84.8	3.6	2.5	39.3
2791	Typesetting -----	-	74	19	2.3	28.6	1.8	3.3	21.2	49.3	10.0	58.9	2.8	1.9	27.9
2795	Lithographic platemaking services -----	-	15	5	0.6	12.4	0.4	0.8	8.9	17.4	5.4	22.7	0.6	0.3	5.5
28	Chemicals and allied products -----	-	347	148	29.3	498.0	17.4	34.6	254.4	1 998.6	1 685.3	3 673.3	97.2	30.5	1 240.7
281	Industrial inorganic chemicals -----	-	33	16	1.8	28.1	1.3	2.6	18.6	104.1	146.3	248.6	18.6	2.2	61.2
2819	Industrial inorganic chemicals, n.e.c. -----	-	10	7	0.7	11.5	0.5	1.1	7.8	45.3	74.4	119.5	5.9	1.2	31.8
282	Plastics materials and synthetics -----	-	14	13	3.5	63.2	2.1	4.7	33.8	224.4	338.1	564.7	16.0	4.3	144.0
283	Drugs -----	-	42	21	12.1	228.4	6.6	12.8	103.8	1 076.6	401.3	1 468.7	27.4	10.8	711.1
2834	Pharmaceutical preparations -----	-	34	17	11.6	220.8	6.3	12.1	99.3	1 058.5	390.3	1 440.0	26.5	10.5	703.6
284	Soaps, cleaners, and toilet goods -----	-	82	27	2.1	27.7	1.2	2.4	14.2	103.2	142.6	245.7	3.2	2.4	58.1
2841	Soap and other detergents -----	-	23	10	0.8	10.5	0.6	1.1	6.1	34.5	51.9	86.5	1.0	1.0	25.6
2842	Polishes and sanitation goods -----	-	29	8	0.6	7.8	0.4	0.7	3.9	34.4	41.9	75.4	0.7	0.6	16.4
2843	Surface active agents -----	-	11	8	0.4	7.0	0.2	0.5	3.4	21.8	45.5	67.5	1.5	(NA)	(NA)
2851	Paints and allied products -----	-	46	18	2.5	38.8	1.6	3.0	20.4	115.0	139.1	253.7	3.6	3.1	86.8
286	Industrial organic chemicals -----	-	24	12	3.8	64.9	2.4	4.6	37.7	245.0	373.8	623.3	21.7	2.9	86.3
287	Agricultural chemicals -----	-	12	4	0.5	6.2	0.4	0.7	5.2	23.0	28.4	49.6	1.6	0.9	12.1
289	Miscellaneous chemical products -----	-	94	37	3.1	40.6	1.9	3.7	20.7	107.4	115.7	219.0	5.0	3.8	81.0
2891	Adhesives and sealants -----	-	21	11	0.6	8.2	0.4	0.7	4.0	23.8	37.9	61.5	1.0	(NA)	(NA)
2899	Chemical preparations, n.e.c. -----	-	52	14	1.6	19.1	0.9	1.9	10.1	60.2	52.2	108.5	3.4	2.2	53.0
295	Paving and roofing materials -----	-	29	7	0.7	10.4	0.5	1.1	6.8	26.8	48.0	74.3	3.3	0.6	20.7
2951	Paving mixtures and blocks -----	-	24	4	0.3	4.7	0.2	0.5	3.1	13.1	24.1	37.2	1.9	(NA)	(NA)
2952	Asphalt felts and coatings -----	-	5	3	0.4	5.7	0.3	0.6	3.7	13.7	23.9	37.1	1.3	(NA)	(NA)
299	Miscellaneous petroleum and coal products -----	-	24	12	0.9	17.3	0.3	0.6	3.5	35.7	50.2	85.8	1.6	1.0	28.6
30	Rubber and miscellaneous plastics products -----	-	280	118	15.9	211.9	12.5	24.5	150.9	469.9	541.6	993.5	28.1	16.1	346.3

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972		
			E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Philadelphia, Pa.-N.J., SMSA—Con.															
30	Rubber and miscellaneous plastics products—Con.															
3011	Tires and inner tubes ---	-	5	3	5.2	83.3	4.2	8.2	65.6	208.5	280.7	470.5	7.7	5.3	190.5	
3079	Miscellaneous plastics products -----	-	242	100	9.5	112.8	7.2	14.3	73.6	233.6	240.7	475.1	19.4	8.9	126.7	
32	Stone, clay, and glass products -----	-	309	114	12.8	170.4	9.9	19.7	119.9	385.4	348.9	736.8	26.1	15.0	290.3	
3231	Products of purchased glass -----	-	45	18	1.7	20.8	1.4	2.6	15.4	38.3	44.8	83.2	1.7	1.6	25.8	
325	Structural clay products ---	-	13	7	1.8	22.1	1.4	2.9	15.9	41.9	29.0	71.3	(D)	2.2	36.7	
327	Concrete, gypsum, and plaster products -----	-	121	40	2.6	35.9	1.9	4.0	24.3	72.2	86.8	159.0	6.9	3.4	77.8	
3272	Concrete products, n.e.c. -----	E2	49	18	1.0	12.5	0.8	1.6	8.4	24.7	16.1	41.2	1.2	1.6	33.2	
3273	Ready-mixed concrete ---	-	46	15	0.9	13.5	0.7	1.5	9.2	25.0	36.0	60.9	2.5	0.8	20.1	
3275	Gypsum products -----	-	5	3	0.3	5.1	0.2	0.5	3.6	11.1	22.1	33.2	1.7	0.5	13.5	
329	Miscellaneous nonmetallic mineral products -----	-	97	45	5.7	76.9	4.4	8.3	52.4	201.3	161.9	363.9	14.0	6.0	113.6	
3291	Abrasive products -----	-	19	6	0.8	9.7	0.6	1.0	5.4	18.7	11.8	30.8	0.5	1.0	15.4	
3293	Gaskets, packing, and sealing devices -----	-	21	11	0.9	11.7	0.6	1.3	7.0	21.0	15.0	36.7	1.0	1.4	20.1	
3295	Minerals, ground or treated -----	-	17	7	0.3	4.6	0.3	0.5	3.3	11.3	12.5	23.9	1.5	(NA)	(NA)	
3296	Mineral wool -----	-	7	5	2.1	30.6	1.7	3.6	24.4	114.0	73.3	187.7	(D)	1.7	49.9	
3297	Nonclay refractories -----	-	6	5	0.6	9.5	0.5	0.9	6.5	19.3	25.4	43.8	(D)	0.6	3.7	
33	Primary metal industries -----	-	185	89	24.6	410.4	18.0	34.2	284.7	720.8	1 217.2	1 953.1	42.7	29.5	567.4	
331	Blast furnace and basic steel products -----	-	46	26	16.9	310.7	12.1	23.0	217.1	474.1	896.1	1 384.9	29.2	20.4	415.5	
3315	Steel wire and related products -----	E1	10	3	0.4	4.9	0.3	0.6	3.8	11.0	20.2	30.5	0.2	(NA)	(NA)	
3317	Steel pipe and tubes ---	-	10	8	1.5	20.9	1.1	2.2	15.1	26.4	28.3	56.0	1.2	(NA)	(NA)	
332	Iron and steel foundries -----	-	24	15	1.8	21.9	1.4	2.8	16.8	62.5	48.5	111.7	(D)	2.0	33.5	
3341	Secondary nonferrous metals -----	E1	21	5	0.5	7.7	0.4	0.7	4.7	18.5	44.1	59.0	2.4	0.9	17.9	
335	Nonferrous rolling and drawing -----	-	21	12	2.3	27.4	1.5	3.0	15.6	71.2	153.0	229.3	5.1	3.0	42.3	
3357	Nonferrous wire drawing and insulating -----	-	8	5	0.7	8.3	0.5	1.0	5.9	12.4	30.3	48.4	(D)	1.2	11.0	
336	Nonferrous foundries -----	-	35	15	2.0	24.8	1.6	3.0	19.1	43.2	30.2	72.6	1.0	2.0	33.1	
3361	Aluminum foundries -----	-	18	9	1.2	16.3	1.1	1.9	13.4	31.1	18.0	48.4	0.6	1.3	23.6	
3362	Brass, bronze, and copper foundries -----	-	11	4	0.6	7.0	0.4	0.7	4.4	9.9	10.5	20.3	0.3	0.6	7.3	
339	Miscellaneous primary metal products -----	-	35	15	1.1	17.4	0.8	1.6	11.1	50.5	40.7	90.0	2.9	(NA)	(NA)	
3398	Metal heat treating -----	-	19	9	0.5	6.0	0.4	0.7	4.0	11.3	3.8	15.1	(D)	(NA)	(NA)	
3399	Primary metal products, n.e.c. -----	-	16	6	0.7	11.3	0.5	0.9	7.1	39.2	36.9	74.9	(D)	0.4	13.1	
34	Fabricated metal products -----	-	933	338	37.0	508.0	28.3	56.0	352.2	1 043.9	1 035.5	2 081.6	53.0	43.0	723.4	
341	Metal cans and shipping containers -----	-	18	16	3.1	49.0	2.7	5.3	41.0	134.9	205.6	335.6	3.7	3.7	80.2	
3411	Metal cans -----	-	13	12	2.6	42.7	2.3	4.6	36.6	119.8	180.7	296.1	(D)	(NA)	(NA)	
3412	Metal barrels, drums, and pails -----	-	5	4	0.5	6.3	0.4	0.7	4.4	15.1	24.9	39.5	(D)	(NA)	(NA)	
3429	Hardware, n.e.c. -----	-	32	13	1.1	12.4	0.8	1.6	8.3	29.8	28.5	58.9	0.8	1.4	21.9	
343	Plumbing and heating, except electric -----	E1	26	9	1.0	13.2	0.7	1.3	7.2	25.2	27.7	52.9	1.2	1.8	23.7	
3433	Heating equipment, except electric -----	-	17	7	0.9	11.1	0.5	1.0	5.6	21.6	24.9	46.6	1.0	1.5	21.0	
344	Fabricated structural metal products -----	E1	361	121	9.6	123.9	6.9	13.4	76.5	243.6	276.1	520.9	11.0	11.2	179.1	
3441	Fabricated structural metal -----	-	68	25	1.8	25.0	1.3	2.6	16.1	46.6	61.4	109.2	2.8	2.8	45.9	
3442	Metal doors, sash, and trim -----	E1	47	15	1.0	9.4	0.8	1.5	5.8	18.4	28.1	45.9	1.1	1.3	14.6	
3443	Fabricated plate work (boiler shops) -----	E1	55	32	3.0	44.5	2.1	3.9	25.1	95.1	92.9	189.9	3.1	2.9	61.2	
3444	Sheet metal work -----	-	112	32	3.0	34.0	2.2	4.1	22.5	63.0	70.7	132.7	3.5	3.0	38.3	
3446	Architectural metal work -----	E1	66	11	0.6	8.7	0.5	1.0	5.4	14.8	12.4	27.2	0.3	(NA)	(NA)	
345	Screw machine products, bolts, etc. -----	-	68	28	3.8	49.0	3.0	6.0	37.5	108.3	70.3	176.9	12.9	3.7	65.3	
3451	Screw machine products -----	-	42	11	0.7	8.6	0.6	1.1	6.3	18.0	11.3	29.0	(D)	0.5	7.4	
3452	Bolts, nuts, rivets, and washers -----	-	26	17	3.0	40.4	2.4	4.9	31.2	90.3	59.0	147.9	(D)	3.2	57.9	
346	Metal forgings and stampings -----	-	81	35	7.1	119.9	5.6	11.3	89.6	224.0	211.3	438.7	7.1	9.6	170.8	
3469	Metal stampings, n.e.c. -----	-	65	22	1.8	22.8	1.4	2.9	15.8	42.3	62.0	103.7	2.8	2.2	31.1	
347	Metal services, n.e.c. -----	-	128	25	1.8	21.6	1.4	2.9	14.4	40.1	35.9	76.0	2.9	2.0	29.9	
3471	Plating and polishing -----	E1	71	11	0.8	8.9	0.6	1.3	5.7	14.4	8.1	22.3	0.9	1.1	13.5	
3479	Metal coating and allied services -----	-	57	14	1.0	12.7	0.7	1.6	8.7	25.7	27.8	53.7	2.0	0.9	16.4	
349	Miscellaneous fabricated metal products -----	-	189	79	7.9	99.5	6.1	11.7	63.5	200.2	155.4	354.3	11.9	6.8	106.6	
3494	Valves and pipe fittings -----	-	29	18	2.8	39.8	1.9	3.5	22.1	82.8	53.4	136.7	4.5	3.1	51.8	

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Philadelphia, Pa.-N.J., SMSA—Con.														
34	Fabricated metal products—Con.														
349	Miscellaneous fabricated metal products—Con.														
3495	Wire springs -----	-	9	6	0.5	5.2	0.4	0.8	3.8	8.5	9.9	18.3	0.7	(NA)	(NA)
3496	Miscellaneous fabricated wire products -----	E1	37	13	1.0	10.3	0.8	1.7	7.0	19.5	17.5	36.8	1.5	0.9	11.6
3498	Fabricated pipe and fittings -----	-	25	12	0.9	12.3	0.7	1.3	8.2	26.0	18.1	43.7	(D)	0.3	4.5
3499	Fabricated metal products, n.e.c. -----	-	84	27	2.2	25.1	1.8	3.6	18.0	49.8	44.7	93.5	2.3	1.6	21.5
35	Machinery, except electrical -	-	1 183	308	44.8	661.8	27.9	59.4	363.7	1 176.1	945.2	2 093.8	58.0	45.3	921.9
3535	Conveyors and conveying equipment --	-	19	10	1.5	22.2	0.9	1.6	10.6	48.3	35.3	81.5	0.7	1.1	18.2
354	Metalworking machinery----	E1	246	44	4.3	70.3	3.3	7.2	50.9	122.5	55.9	175.9	6.3	3.6	61.2
3542	Machine tools, metal forming types -----	-	12	4	0.6	10.5	0.4	0.9	6.4	22.1	15.0	36.4	1.2	0.6	7.1
3544	Special dies, tools, jigs, and fixtures -----	E1	183	36	3.3	53.6	2.6	5.6	40.5	89.2	34.7	122.0	4.7	2.5	47.4
355	Special industry machinery-----	-	140	50	5.3	78.8	2.9	6.1	38.5	135.5	120.7	254.6	5.0	5.8	95.3
3551	Food products machinery-----	-	16	7	0.5	7.3	0.3	0.6	3.5	13.9	9.8	24.0	0.3	0.6	9.6
3554	Paper industries machinery-----	-	15	7	1.3	20.5	0.7	1.5	10.7	35.2	24.1	58.7	1.4	1.0	19.1
3559	Special industry machinery, n.e.c.-----	-	63	21	2.4	35.8	1.4	2.6	17.0	64.6	68.1	129.6	2.3	1.7	30.0
356	General industrial machinery-----	-	163	66	9.2	138.1	6.0	12.5	84.9	283.4	203.2	481.0	12.4	9.1	155.8
3564	Blowers and fans -----	-	14	6	0.5	5.7	0.3	0.6	3.3	13.9	8.3	21.8	(D)	0.5	7.4
3567	Industrial furnaces and ovens -----	-	26	14	1.2	18.0	0.6	1.2	7.8	35.4	34.7	69.1	1.5	1.1	18.6
357	Office and computing machines -----	-	49	29	7.1	93.9	3.1	5.9	32.0	171.1	120.7	283.2	13.7	4.0	107.8
3573	Electronic computing equipment -----	-	39	24	6.1	79.7	2.6	5.0	26.2	143.3	104.5	239.8	12.6	3.6	99.0
358	Refrigeration and service machinery-----	-	58	28	3.2	36.2	2.1	8.1	19.4	78.5	74.7	151.4	1.9	(NA)	(NA)
3585	Refrigeration and heating equipment ----	E1	28	14	1.8	17.0	1.2	6.3	9.7	39.6	38.7	76.7	1.0	(NA)	(NA)
3589	Service industry machinery, n.e.c.-----	-	23	10	0.6	7.9	0.4	0.7	3.6	15.0	15.3	30.3	0.4	0.8	11.7
359	Miscellaneous machinery, except electrical -----	E1	460	64	5.3	69.0	4.2	8.2	48.0	124.5	69.6	192.3	7.6	5.4	90.7
36	Electric and electronic equipment -----	-	443	181	36.5	498.0	25.5	48.2	299.0	956.7	889.8	1 828.9	39.7	48.6	875.2
361	Electric distributing equipment-----	-	31	13	7.7	117.9	5.1	9.4	73.2	230.6	112.0	340.8	5.7	(NA)	(NA)
3613	Switchgear and switchboard apparatus -	-	22	10	7.3	114.0	4.8	8.8	70.4	222.7	104.9	325.9	5.5	(NA)	(NA)
362	Electrical industrial apparatus -----	-	45	19	2.5	29.3	1.9	3.7	17.2	65.5	39.9	101.1	2.5	2.2	31.5
3621	Motors and generators --	-	11	9	1.5	15.9	1.2	2.4	10.0	32.9	18.1	48.8	0.9	1.1	13.5
3622	Industrial controls -----	E1	23	6	0.6	6.8	0.4	0.9	4.1	16.9	9.7	24.7	1.2	0.3	4.0
364	Electric lighting and wiring equipment-----	-	92	40	5.7	61.3	4.0	7.2	33.4	144.6	180.0	322.5	3.9	6.6	112.5
3643	Current-carrying wiring devices -----	E1	16	8	1.0	9.5	0.8	1.5	6.7	23.2	19.2	42.1	0.3	1.3	14.1
3644	Noncurrent-carrying wiring devices -----	E1	10	7	0.8	10.7	0.7	1.2	6.9	24.0	30.8	53.7	0.6	0.4	9.0
3645	Residential lighting fixtures -----	-	41	16	2.4	25.9	1.5	2.4	10.3	60.9	53.1	114.6	0.9	2.8	54.0
3646	Commercial lighting fixtures -----	-	11	5	1.3	13.1	1.0	1.7	8.4	32.9	69.5	101.2	1.5	1.9	33.4
3652	Phonograph records and prerecorded tape --	-	21	6	1.8	18.6	1.5	3.5	15.1	29.1	40.0	68.3	2.2	1.6	17.0
366	Communication equipment-----	-	72	34	9.4	164.4	5.7	10.7	91.5	272.7	194.2	454.0	11.4	17.3	310.6
367	Electronic components and accessories -----	-	134	48	6.7	76.6	5.1	9.9	49.2	156.4	251.8	411.2	10.2	4.6	56.7
3674	Semiconductors and related devices -----	-	14	5	0.8	10.6	0.4	1.0	5.3	22.2	15.1	37.7	(D)	0.7	8.4
3676	Electronic resistors -----	-	7	4	0.8	7.7	0.7	1.3	5.7	15.3	5.3	21.3	0.7	1.2	13.8
3677	Electronic coils and transformers -----	-	5	3	0.7	5.9	0.6	1.2	4.3	9.7	2.9	12.0	(D)	(NA)	(NA)
3678	Electronic connectors --	-	5	3	0.3	2.7	0.2	0.4	1.8	5.9	4.2	10.3	(D)	(NA)	(NA)
3679	Electronic components, n.e.c.-----	-	96	29	3.8	46.7	3.0	5.6	30.3	98.7	220.6	321.4	5.0	2.0	25.9
369	Miscellaneous electrical equipment and supplies --	-	35	17	2.1	24.5	1.6	3.1	16.4	42.8	48.5	92.5	1.6	2.2	44.8
3694	Engine electrical equipment -----	E1	13	7	0.8	5.5	0.6	1.3	3.4	11.5	15.7	26.0	0.4	0.5	5.0
37	Transportation equipment ---	-	134	48	23.3	412.5	13.3	28.4	202.7	628.1	510.1	1 154.6	34.1	22.8	521.7

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Philadelphia, Pa.-N.J., SMSA—Con.														
37	Transportation equipment—Con.														
371	Motor vehicles and equipment-----	-	74	24	6.5	100.1	5.3	11.0	78.0	161.1	268.3	427.5	8.0	6.2	151.0
3724	Aircraft engines and engine parts-----	-	8	4	0.4	6.3	0.3	0.6	3.8	11.6	6.8	18.1	0.6	0.3	3.7
3728	Aircraft equipment, n.e.c.-----	E1	8	3	0.4	6.8	0.3	0.7	5.0	11.2	3.7	14.5	0.4	0.5	8.0
38	Instruments and related products-----	-	263	96	19.5	280.0	11.1	22.9	129.3	595.9	277.6	853.3	23.3	17.8	317.4
3811	Engineering and scientific instruments--	E1	29	11	1.2	15.5	0.7	1.7	8.3	34.1	17.8	50.7	(D)	1.5	20.9
382	Measuring and controlling devices-----	-	88	40	13.8	212.3	7.3	15.3	92.5	432.8	172.1	589.9	13.6	12.4	226.0
3823	Process control instruments-----	-	22	15	9.9	160.8	4.6	9.8	60.7	323.7	116.7	431.2	10.1	8.8	168.0
3832	Optical instruments and lenses-----	-	20	9	1.0	13.3	0.7	1.5	7.3	38.5	19.0	56.7	(D)	0.6	15.5
384	Medical instruments and supplies-----	E1	88	26	2.5	27.1	1.7	3.2	15.2	56.1	34.4	87.8	2.0	2.6	42.6
3841	Surgical and medical instruments-----	E2	27	9	0.7	8.5	0.4	0.8	4.0	18.7	10.4	28.4	0.8	0.6	7.6
3843	Dental equipment and supplies-----	-	25	9	0.8	9.4	0.6	1.0	6.0	18.5	9.9	27.0	0.7	0.9	17.6
3861	Photographic equipment and supplies-----	E2	21	5	0.5	8.0	0.3	0.7	4.0	27.7	29.9	57.7	(D)	0.5	8.4
3873	Watches, clocks, and watchcases-----	-	7	4	0.3	2.8	0.2	0.5	1.5	4.6	3.5	7.6	0.3	(NA)	(NA)
39	Miscellaneous manufacturing industries---	-	347	91	9.8	127.5	7.6	13.7	73.2	288.5	327.5	616.1	18.8	9.7	204.7
391	Jewelry, silverware, and plated ware-----	E1	59	8	0.7	7.4	0.6	1.1	4.7	17.5	28.1	45.3	0.3	0.5	9.8
3944	Games, toys, and children's vehicles----	-	16	5	0.6	6.3	0.5	0.8	3.1	17.7	32.0	49.0	(D)	(NA)	(NA)
3949	Sporting and athletic goods, n.e.c.-----	-	23	9	0.7	7.4	0.6	1.2	5.4	17.1	18.4	34.7	(D)	1.2	19.6
396	Costume jewelry and notions-----	-	15	8	0.5	4.0	0.5	0.8	2.7	7.2	6.1	13.3	(D)	0.4	4.4
399	Miscellaneous manufactures-----	-	194	55	6.2	93.4	4.6	8.3	51.5	211.6	222.7	436.2	14.3	5.3	140.3
3991	Brooms and brushes----	-	11	5	0.4	4.3	0.2	0.4	1.7	5.3	5.8	10.5	0.1	(NA)	(NA)
3999	Manufacturing industries, n.e.c.-----	-	97	24	3.8	62.1	2.7	4.6	30.8	144.8	138.6	283.6	(D)	2.9	77.5
	Pittsburgh SMSA-----	-	2 662	957	239.7	4 037.5	153.9	294.0	2 311.5	6 478.4	9 144.9	15 480.5	558.0	262.8	4 163.9
20	Food and kindred products--	-	204	74	9.3	124.8	5.8	11.1	88.9	334.2	443.8	774.5	16.6	13.6	273.4
201	Meat products-----	E1	37	15	0.8	10.5	0.7	1.2	6.9	23.6	82.7	105.8	0.8	0.9	15.7
2011	Meat packing plants-----	E1	26	10	0.4	5.5	0.4	0.7	3.7	13.7	57.1	70.4	0.3	0.4	6.4
2013	Sausages and other prepared meats-----	-	11	5	0.4	5.0	0.3	0.5	3.2	9.9	25.7	35.4	0.6	0.5	9.3
202	Dairy products-----	E1	30	11	1.3	17.6	0.5	1.1	6.5	37.6	102.7	140.0	3.5	2.6	45.7
2026	Fluid milk-----	E1	23	8	1.0	14.2	0.4	0.8	4.7	30.2	82.2	112.1	(D)	2.1	34.9
205	Bakery products-----	-	51	19	2.7	37.2	1.5	2.9	20.8	90.2	55.3	145.5	3.5	3.6	61.7
206	Sugar and confectionery products-----	E2	21	3	0.4	4.1	0.3	0.6	3.1	11.3	13.8	24.8	0.7	(NA)	(NA)
208	Beverages-----	-	28	13	1.9	28.2	1.0	2.1	11.7	78.4	77.6	155.0	4.6	2.6	51.4
2086	Bottled and canned soft drinks-----	-	24	10	1.2	17.3	0.5	0.9	4.6	47.0	42.3	88.4	(D)	(NA)	(NA)
2311	Men's and boys' suits and coats-----	E1	3	3	0.4	2.5	0.3	0.5	2.0	4.2	0.5	4.7	(Z)	0.6	4.2
233	Women's and misses' outerwear-----	E3	12	9	1.1	7.5	1.0	1.8	6.3	9.3	1.0	10.3	0.3	0.8	5.4
2337	Women's and misses' suits and coats-----	E1	6	5	0.7	4.4	0.6	1.1	3.7	5.3	0.5	5.8	(D)	(NA)	(NA)
251	Household furniture-----	-	24	9	0.6	5.7	0.4	0.8	3.7	10.6	11.7	22.4	1.0	0.9	8.2
26	Paper and allied products---	-	37	28	3.1	35.7	2.4	4.7	23.8	78.2	89.3	166.3	4.4	3.8	64.1
264	Miscellaneous converted paper products-----	-	15	11	1.4	15.2	1.2	2.2	9.7	42.4	30.5	71.5	0.8	(NA)	(NA)
265	Paperboard containers and boxes-----	-	22	15	1.6	20.5	1.3	2.5	14.1	35.8	58.8	94.8	3.6	2.4	35.5
2653	Corrugated and solid fiber boxes-----	-	13	9	1.1	14.4	0.8	1.6	9.6	24.7	42.7	67.1	(D)	1.6	23.1
27	Printing and publishing-----	-	341	76	8.9	121.2	5.2	9.3	67.5	237.3	142.5	378.3	13.8	8.3	138.6
2711	Newspapers-----	-	47	19	4.1	57.6	1.6	2.9	24.4	123.8	44.8	168.6	7.8	4.0	73.8
273	Books-----	-	13	5	0.4	3.2	0.2	0.2	1.1	7.4	4.8	12.0	0.3	(NA)	(NA)
275	Commercial printing-----	-	206	36	3.3	46.0	2.6	4.6	32.9	78.7	78.6	156.0	3.6	2.9	43.4
2752	Commercial printing, lithographic-----	-	94	31	2.6	38.4	2.0	3.7	27.6	64.2	66.1	129.3	(D)	2.2	34.3
278	Blankbooks and bookbinding-----	-	11	6	0.5	6.0	0.4	0.9	4.4	12.9	5.1	18.0	0.6	0.5	7.7
279	Printing trade services----	E2	32	6	0.3	4.9	0.3	0.5	3.3	7.6	2.0	9.6	0.9	0.4	5.6

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972		
			E¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials² (million dollars)	Value of shipments² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Pittsburgh SMSA—Con.															
28	Chemicals and allied products -----	-	106	42	6.2	91.2	3.9	7.6	50.2	286.1	600.6	890.6	30.0	6.1	169.2	
281	Industrial inorganic chemicals -----	-	20	8	1.2	18.5	0.7	1.6	11.3	99.4	217.0	313.1	9.4	0.9	63.4	
2819	Industrial inorganic chemicals, n.e.c. -----	-	8	6	0.8	12.9	0.5	1.2	8.4	74.9	201.6	272.9	(D)	0.6	47.7	
282	Plastics materials and synthetics -----	-	8	7	1.3	19.6	0.9	1.8	11.7	59.2	97.5	155.5	6.8	2.0	39.2	
2851	Paints and allied products -----	-	15	8	0.9	12.6	0.5	0.8	5.2	39.2	52.3	90.0	1.8	1.2	24.4	
289	Miscellaneous chemical products -----	-	30	11	0.9	10.1	0.5	0.9	5.8	19.1	38.5	57.6	1.3	0.9	16.8	
2899	Chemical preparations, n.e.c. -----	-	22	7	0.7	7.1	0.4	0.6	4.4	16.6	28.1	44.6	(D)	0.7	11.6	
29	Petroleum and coal products -----	-	30	8	0.8	13.0	0.5	1.1	8.1	27.8	146.4	171.9	2.9	0.8	16.0	
299	Miscellaneous petroleum and coal products -----	-	15	5	0.4	6.6	0.3	0.5	3.9	17.6	64.7	81.9	1.8	0.4	8.2	
2992	Lubricating oils and greases -----	-	9	5	0.3	5.9	0.2	0.5	3.4	14.8	59.8	74.2	1.5	(NA)	(NA)	
30	Rubber and miscellaneous plastics products -----	-	81	31	3.5	40.3	2.8	5.2	28.2	75.4	81.3	157.9	5.0	2.6	36.9	
3069	Fabricated rubber products, n.e.c. -----	E1	8	4	0.3	3.0	0.2	0.5	2.2	6.5	6.4	12.9	(D)	(NA)	(NA)	
3079	Miscellaneous plastics products -----	-	73	27	3.2	37.2	2.5	4.8	26.0	68.9	74.9	145.0	(D)	2.3	32.5	
32	Stone, clay, and glass products -----	-	204	78	13.1	170.3	11.1	21.3	135.3	357.2	265.3	623.3	23.5	14.5	271.0	
322	Glass and glassware, pressed or blown -----	-	20	13	6.0	72.3	5.3	10.0	61.3	148.2	85.3	235.1	11.1	6.1	103.4	
3221	Glass containers -----	-	4	4	2.5	31.7	2.2	4.0	26.9	61.9	48.5	112.6	(D)	(NA)	(NA)	
3229	Pressed and blown glass, n.e.c. -----	-	16	9	3.5	40.6	3.1	5.9	34.4	86.3	36.8	122.5	(D)	(NA)	(NA)	
3231	Products of purchased glass -----	-	21	9	1.9	27.9	1.6	3.0	21.8	68.6	57.4	124.0	1.2	(NA)	(NA)	
325	Structural clay products -----	E1	13	8	0.6	7.4	0.5	1.0	5.7	15.1	11.6	26.8	0.6	0.7	10.5	
327	Concrete, gypsum, and plaster products -----	E1	78	20	1.2	15.4	1.0	1.8	11.5	34.8	41.9	76.3	5.2	1.2	24.1	
3271	Concrete block and brick -----	-	15	5	0.3	3.6	0.2	0.5	2.8	8.4	9.9	18.3	2.7	0.3	5.9	
3272	Concrete products, n.e.c. -----	E3	29	6	0.4	3.8	0.3	0.5	2.7	9.0	5.4	14.2	0.6	0.6	8.7	
3273	Ready-mixed concrete -----	E1	34	9	0.6	8.0	0.4	0.9	6.0	17.4	26.6	43.7	1.9	0.4	9.5	
329	Miscellaneous nonmetallic mineral products -----	-	49	20	1.5	19.8	1.1	2.3	14.5	47.9	38.5	86.0	3.7	1.9	36.8	
3291	Abrasive products -----	-	10	7	0.3	4.5	0.3	0.5	3.1	10.5	10.3	20.4	1.9	0.3	5.6	
3295	Minerals, ground or treated -----	-	12	6	0.3	4.9	0.3	0.6	3.9	11.3	6.3	17.4	0.8	0.4	9.5	
3297	Nonclay refractories -----	-	11	4	0.4	5.1	0.3	0.5	3.5	10.9	14.0	25.1	0.4	(NA)	(NA)	
33	Primary metal industries -----	-	156	99	84.9	1 583.0	68.9	130.7	1 245.5	2 781.0	5 531.5	8 223.8	263.3	87.1	1 607.4	
331	Blast furnace and basic steel products -----	-	56	41	73.5	1 408.4	60.1	113.9	1 118.7	2 443.3	5 069.3	7 424.9	223.2	77.2	1 453.5	
3316	Cold finishing of steel shapes -----	-	12	9	4.3	73.1	3.3	6.3	57.7	148.9	243.6	384.1	11.3	4.7	131.9	
332	Iron and steel foundries -----	-	38	32	6.6	102.7	5.2	10.1	78.5	166.7	167.4	337.9	(D)	6.1	89.9	
3321	Gray iron foundries -----	-	23	20	3.2	49.6	2.6	5.0	38.1	93.7	113.2	206.4	(D)	3.1	54.6	
3325	Steel foundries, n.e.c. -----	-	15	12	3.4	53.1	2.6	5.2	40.4	73.0	54.2	131.5	8.6	(NA)	(NA)	
335	Nonferrous rolling and drawing -----	-	11	7	1.4	20.0	1.0	1.9	14.3	61.9	76.5	134.8	2.3	0.7	9.1	
336	Nonferrous foundries -----	-	20	8	1.0	13.4	0.8	1.4	9.2	19.9	17.6	37.8	1.0	1.1	18.3	
3361	Aluminum foundries -----	-	10	4	0.6	7.6	0.5	0.9	5.9	12.5	10.6	23.4	(D)	0.7	11.5	
339	Miscellaneous primary metal products -----	-	19	7	0.4	5.9	0.3	0.6	3.9	17.1	25.0	42.2	1.1	(NA)	(NA)	
34	Fabricated metal products -----	-	361	150	19.9	303.8	14.5	28.3	206.2	590.6	690.6	1 258.0	23.1	22.9	398.7	
341	Metal cans and shipping containers -----	-	3	3	0.4	4.5	0.4	0.6	3.9	11.5	17.2	28.6	(D)	(NA)	(NA)	
344	Fabricated structural metal products -----	-	157	63	8.9	126.4	6.0	11.1	76.5	245.3	351.5	574.5	7.6	9.7	147.1	
3441	Fabricated structural metal -----	-	53	25	4.3	58.8	3.0	5.4	38.2	109.2	132.3	225.5	2.7	4.8	78.9	
3443	Fabricated plate work (boiler shops) -----	-	28	17	1.9	29.5	1.3	2.6	18.2	56.3	43.2	101.6	3.0	2.3	23.7	
3444	Sheet metal work -----	-	29	9	1.1	17.3	0.6	1.2	9.1	45.2	132.1	169.6	0.7	1.1	21.7	
3446	Architectural metal work -----	-	23	4	0.8	10.3	0.6	1.1	6.5	18.4	19.3	37.3	0.3	0.8	10.0	
345	Screw machine products, bolts, etc. -----	-	24	13	1.8	25.8	1.4	2.7	18.2	44.8	47.9	93.1	4.0	2.1	32.5	
3451	Screw machine products -----	E1	11	5	0.3	3.6	0.2	0.4	2.5	7.6	4.4	12.0	0.5	0.3	4.0	
3452	Bolts, nuts, rivets, and washers -----	-	13	8	1.5	22.2	1.1	2.3	15.7	37.2	43.5	81.2	3.5	1.8	28.5	
346	Metal forgings and stampings -----	-	21	12	3.8	80.6	3.0	6.7	62.5	136.2	155.7	290.5	4.0	3.1	72.0	
3469	Metal stampings, n.e.c. -----	-	9	3	0.3	3.8	0.2	0.5	2.8	9.2	10.9	20.0	(D)	(NA)	(NA)	

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Pittsburgh SMSA—Con.														
34	Fabricated metal products—Con.														
347	Metal services, n.e.c. -----	-	47	15	0.8	10.0	0.6	1.3	6.7	17.9	22.0	40.7	0.8	0.8	11.4
3471	Plating and polishing -----	E1	28	7	0.3	4.5	0.3	0.6	3.1	7.8	3.5	11.3	0.3	0.3	3.8
3479	Metal coating and allied services -----	-	19	8	0.4	5.5	0.3	0.7	3.6	10.1	18.5	29.4	0.6	0.5	7.6
349	Miscellaneous fabricated metal products -----	-	87	39	3.6	46.8	2.7	5.1	33.1	113.8	84.9	198.7	5.7	4.3	87.1
3493	Steel springs, except wire -----	-	6	4	0.5	6.4	0.4	0.8	4.9	17.5	15.1	32.2	0.1	(NA)	(NA)
3494	Valves and pipe fittings -----	-	21	11	1.6	20.2	1.0	2.0	12.6	52.8	35.1	86.8	3.3	1.9	39.5
3498	Fabricated pipe and fittings -----	-	9	7	0.7	10.9	0.6	1.0	9.2	28.1	19.0	48.7	1.3	0.7	24.3
3499	Fabricated metal products, n.e.c. -----	E1	33	9	0.5	5.7	0.4	0.8	3.9	9.0	7.7	16.5	0.5	0.4	4.7
35	Machinery, except electrical -	-	430	126	23.8	373.0	15.2	29.9	206.9	794.4	541.5	1 330.3	32.0	24.8	544.7
353	Construction and related machinery -----	-	28	14	2.0	28.5	1.3	2.6	17.7	66.6	57.4	118.8	3.3	1.7	41.8
3532	Mining machinery -----	-	14	7	1.3	17.9	0.8	1.5	10.3	37.3	43.0	75.8	1.0	1.0	26.1
354	Metalworking machinery -----	-	101	41	6.2	100.1	4.1	7.9	57.6	222.0	179.3	439.6	11.6	6.5	134.9
3544	Special dies, tools, jigs, and fixtures -----	-	59	20	1.5	22.8	1.2	2.5	16.9	43.9	22.3	65.3	(D)	1.2	28.2
3545	Machine tool accessories -----	-	16	6	2.0	33.6	1.1	2.2	17.4	93.8	107.3	204.0	(D)	1.9	37.6
3549	Metalworking machinery, n.e.c. -----	-	8	6	0.7	8.7	0.4	0.7	4.1	16.0	9.1	26.3	(D)	0.7	13.1
3559	Special industry machinery, n.e.c. -----	-	13	4	0.3	4.1	0.2	0.5	3.1	15.7	9.5	18.5	(D)	(NA)	(NA)
356	General industrial machinery -----	-	59	18	6.9	108.4	4.0	7.7	53.9	246.9	145.7	376.1	7.8	6.4	146.6
3569	General industrial machinery, n.e.c. -----	-	14	4	0.3	3.9	0.2	0.4	2.5	9.2	6.5	15.1	0.4	0.5	9.0
358	Refrigeration and service machinery -----	-	10	4	0.6	8.7	0.4	0.9	5.6	13.3	13.7	26.6	0.4	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E1	200	38	2.4	31.9	1.9	3.5	21.9	56.6	31.8	87.7	2.7	2.0	29.7
36	Electric and electronic equipment -----	-	112	49	15.3	217.2	10.5	20.8	134.1	496.1	287.1	780.4	16.4	18.8	350.9
362	Electrical industrial apparatus -----	-	28	15	1.4	20.5	0.8	1.5	7.8	40.9	26.2	65.8	0.8	1.8	31.2
3621	Motors and generators -----	-	9	6	0.8	13.1	0.4	0.8	4.6	26.4	17.0	42.2	0.4	(NA)	(NA)
3622	Industrial controls -----	-	14	7	0.5	6.0	0.3	0.5	2.3	11.6	7.2	18.7	0.2	(NA)	(NA)
364	Electric lighting and wiring equipment -----	-	22	10	1.0	9.9	0.8	1.4	6.2	18.1	36.3	55.4	2.1	0.8	14.5
3645	Residential lighting fixtures -----	-	7	2	0.3	2.3	0.2	0.3	1.3	4.1	5.4	9.6	(D)	(NA)	(NA)
367	Electronic components and accessories -----	E1	23	6	1.0	12.5	0.6	1.3	6.2	19.1	18.5	38.0	2.7	1.2	14.7
3674	Semiconductors and related devices -----	-	8	4	0.8	10.8	0.5	1.0	5.2	15.4	15.6	31.5	(D)	(NA)	(NA)
37	Transportation equipment ---	-	35	14	5.5	85.1	4.0	7.3	53.9	162.7	106.3	259.6	111.7	5.5	80.5
38	Instruments and related products -----	-	67	20	5.2	66.1	3.3	6.3	37.2	135.6	85.8	211.7	8.8	4.9	82.8
382	Measuring and controlling devices -----	-	20	6	1.4	15.0	1.0	1.5	9.3	26.8	16.1	44.1	0.5	1.9	30.7
395	Pens, pencils, office and art supplies -----	-	11	5	0.6	7.1	0.3	0.7	3.7	13.0	13.1	25.6	0.4	(NA)	(NA)
--	Administrative and auxiliary --	-	125	78	32.9	744.8	-	-	-	-	-	-	-	(NA)	(NA)
	Reading SMSA -----		667	309	50.1	623.6	37.7	73.7	416.5	1 378.8	1 542.4	2 894.9	85.1	51.8	865.4
20	Food and kindred products --	-	76	35	4.0	43.0	3.0	5.9	26.0	115.4	208.7	324.3	6.8	4.2	69.5
202	Dairy products -----	-	7	5	0.3	4.4	0.1	0.2	1.4	8.5	33.2	41.7	0.4	0.3	5.8
203	Preserved fruits and vegetables -----	-	7	5	0.5	4.1	0.4	0.7	3.0	18.4	45.3	63.9	1.9	0.6	9.7
205	Bakery products -----	-	13	6	0.9	10.2	0.6	1.1	5.1	21.8	18.4	40.2	1.4	0.6	8.8
208	Beverages -----	-	9	5	0.3	4.4	0.1	0.3	1.6	10.8	35.3	45.7	0.6	0.3	6.6
22	Textile mill products -----	-	52	31	4.3	34.9	3.7	7.0	26.9	58.7	54.8	113.9	3.4	5.6	66.5
225	Knitting mills -----	-	42	24	2.9	22.9	2.5	4.6	17.3	42.6	42.0	85.0	1.2	5.7	57.8
2252	Hosiery, n.e.c. -----	-	6	3	1.0	9.0	0.8	1.5	6.1	15.8	14.9	30.7	(D)	1.3	17.0
2253	Knit outerwear mills -----	-	9	8	0.9	6.7	0.8	1.4	5.5	11.2	11.0	22.1	0.3	1.7	16.1
23	Apparel and other textile products -----	-	67	49	4.7	32.4	4.0	7.0	25.3	52.8	30.9	83.9	1.2	4.6	40.3
232	Men's and boys' furnishings -----	-	15	14	1.4	10.1	1.2	2.2	7.7	14.5	12.5	27.9	0.2	1.4	10.1
233	Women's and misses' outerwear -----	-	28	23	2.0	13.4	1.8	3.0	11.0	20.4	8.3	28.6	0.7	1.7	18.0
2331	Women's and misses' blouses and waists -----	-	12	12	1.4	9.6	1.3	2.2	8.0	15.8	6.9	22.4	0.6	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c. -----	-	7	5	0.3	2.3	0.3	0.4	1.8	2.9	1.0	3.8	0.1	0.5	3.6
234	Women's and children's undergarments -----	E1	9	6	0.5	2.5	0.3	0.5	1.7	3.8	4.5	8.1	(D)	0.7	5.6
2341	Women's and children's underwear -----	E1	8	6	0.5	2.5	0.3	0.5	1.7	3.8	4.5	8.1	(D)	0.7	5.6

See footnotes at end of table.

Table 6. **Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.**

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Reading SMSA—Con.														
26	Paper and allied products ---	-	14	10	1.5	20.5	1.1	2.3	14.3	38.2	50.2	88.6	1.6	1.2	21.1
265	Paperboard containers and boxes-----	E1	8	5	0.8	11.5	0.6	1.2	8.1	20.6	27.3	47.6	0.6	0.8	14.6
275	Commercial printing -----	-	34	4	0.3	3.8	0.2	0.4	2.4	7.3	2.8	10.2	(D)	0.7	8.1
28	Chemicals and allied products -----	-	25	6	1.3	16.4	0.6	1.2	7.2	58.3	85.3	143.3	4.1	1.4	48.1
30	Rubber and miscellaneous plastics products -----	-	14	11	1.8	21.3	1.3	2.7	12.9	49.4	41.4	89.7	3.9	1.3	23.6
32	Stone, clay, and glass products -----	-	28	7	0.9	12.3	0.7	1.4	9.3	45.0	39.1	81.6	2.1	0.8	18.0
33	Primary metal industries ----	-	39	30	7.6	123.3	5.4	10.7	80.9	265.4	436.5	691.0	22.0	6.5	182.3
332	Iron and steel foundries ---	-	14	14	2.9	34.5	2.3	4.4	24.9	59.7	34.6	94.4	3.3	1.6	20.9
335	Nonferrous rolling and drawing-----	-	9	8	1.3	20.9	0.9	1.9	13.1	48.5	104.9	151.7	0.7	1.1	32.9
34	Fabricated metal products ---	-	65	25	2.4	28.4	1.9	3.8	20.2	66.0	65.5	132.0	3.2	2.4	40.5
342	Cutlery, hand tools, and hardware -----	-	6	3	0.6	6.3	0.6	1.1	5.2	9.4	9.9	20.4	0.2	0.5	6.6
344	Fabricated structural metal products -----	-	26	9	0.5	7.3	0.4	0.8	4.9	17.0	17.1	34.2	0.5	0.7	11.7
35	Machinery, except electrical -	-	84	21	3.3	42.6	2.5	5.0	29.4	85.1	57.7	140.7	3.7	5.2	66.0
354	Metalworking machinery-----	-	14	2	0.3	3.6	0.2	0.4	2.3	6.3	3.3	9.4	0.5	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E1	42	8	0.5	6.0	0.4	0.7	4.1	11.4	4.1	15.2	0.9	0.3	4.8
3599	Machinery, except electrical, n.e.c. -----	E1	42	8	0.5	6.0	0.4	0.7	4.1	11.4	4.1	15.2	0.9	0.3	4.8
36	Electric and electronic equipment -----	-	29	16	7.0	99.2	5.5	11.5	70.5	246.4	224.7	465.3	26.7	5.5	123.6
362	Electrical industrial apparatus -----	-	5	4	0.4	4.3	0.3	0.6	3.1	9.6	8.4	17.9	(D)	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies --	-	7	6	2.1	27.7	1.7	3.8	20.6	80.8	117.1	196.8	(D)	(NA)	(NA)
399	Miscellaneous manufactures -----	-	13	6	0.8	7.3	0.6	1.0	5.4	14.9	11.8	26.4	0.3	(NA)	(NA)
-	Administrative and auxiliary --	-	19	16	1.7	26.3	-	-	-	-	-	-	-	(NA)	(NA)
	Williamsport SMSA -----	-	202	95	17.5	202.7	13.2	25.2	136.4	515.4	452.8	958.0	(D)	18.7	306.6
20	Food and kindred products --	-	23	14	1.3	13.4	0.9	2.1	8.9	60.8	67.7	129.2	1.8	1.2	33.3
22	Textile mill products-----	E1	9	7	0.8	6.6	0.7	1.3	4.8	10.6	14.3	24.8	(D)	(NA)	(NA)
23	Apparel and other textile products -----	E1	12	10	1.4	8.9	1.2	2.2	6.8	15.8	16.8	32.7	0.1	2.1	15.3
24	Lumber and wood products --	-	35	7	0.7	6.7	0.6	1.1	4.7	15.3	30.0	44.5	0.7	0.6	7.6
245	Wood buildings and mobile homes -----	-	3	3	0.3	3.5	0.3	0.4	2.3	7.3	14.2	21.6	0.3	(NA)	(NA)
26	Paper and allied products ---	-	7	5	0.7	7.4	0.5	1.0	4.6	15.9	15.9	31.5	0.9	0.8	11.7
27	Printing and publishing -----	-	24	3	0.5	6.0	0.3	0.5	3.0	15.6	8.2	23.8	0.5	0.6	11.4
32	Stone, clay, and glass products -----	-	9	3	0.3	3.0	0.2	0.4	1.9	6.8	7.5	14.4	0.5	(NA)	(NA)
34	Fabricated metal products ---	-	18	13	1.7	23.3	1.1	2.1	13.1	60.6	45.7	102.8	1.7	1.5	21.1
344	Fabricated structural metal products -----	-	9	5	0.5	6.0	0.4	0.7	4.1	13.5	8.3	20.7	0.2	0.4	5.4
35	Machinery, except electrical -	-	17	5	1.6	20.3	0.9	1.9	10.1	42.7	41.7	84.7	(D)	1.4	21.1
	York SMSA -----	-	734	342	59.0	716.0	45.3	88.2	471.5	1 517.5	1 579.0	3 041.0	86.7	(NA)	(NA)
20	Food and kindred products --	-	93	36	4.6	44.7	3.3	6.5	27.4	123.5	251.3	374.8	6.9	(NA)	(NA)
202	Dairy products -----	E1	7	4	0.4	4.6	0.2	0.4	1.8	9.1	29.5	38.7	0.3	(NA)	(NA)
203	Preserved fruits and vegetables -----	-	13	9	2.1	18.0	1.7	3.3	12.8	58.2	103.0	161.4	2.6	(NA)	(NA)
204	Grain mill products -----	E1	20	3	0.3	3.1	0.2	0.4	1.9	9.4	53.9	63.3	0.2	(NA)	(NA)
205	Bakery products -----	-	14	6	0.7	6.9	0.4	0.8	3.6	13.4	14.1	27.6	1.6	(NA)	(NA)
206	Sugar and confectionery products -----	-	8	4	0.3	2.5	0.2	0.4	2.0	12.6	9.7	22.2	0.3	(NA)	(NA)
2065	Confectionery products ---	-	8	4	0.3	2.5	0.2	0.4	2.0	12.6	9.7	22.2	0.3	(NA)	(NA)
209	Miscellaneous foods and kindred products -----	-	15	6	0.6	6.9	0.5	0.9	3.9	13.9	23.0	36.8	0.7	(NA)	(NA)
2099	Food preparations, n.e.c. -----	-	9	6	0.6	6.6	0.4	0.8	3.7	13.3	22.1	35.3	(D)	(NA)	(NA)
2121	Cigars -----	-	9	5	0.5	3.4	0.4	0.8	2.7	7.5	5.8	11.1	(D)	(NA)	(NA)
22	Textile mill products -----	E4	18	12	3.6	29.1	3.2	6.3	24.3	61.8	50.3	111.1	1.4	(NA)	(NA)
2221	Weaving mills, manmade fiber and silk -----	-	4	4	0.5	4.8	0.4	0.9	4.3	6.8	8.8	15.7	0.2	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employ-ees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	York SMSA—Con.														
23	Apparel and other textile products -----	-	58	41	4.2	26.0	3.9	6.5	22.0	39.1	26.0	63.4	0.7	(NA)	(NA)
233	Women's and misses' outerwear -----	E1	30	24	2.1	12.6	2.0	3.1	11.2	16.4	3.1	19.3	0.2	(NA)	(NA)
2331	Women's and misses' blouses and waists -----	-	6	6	0.4	2.7	0.4	0.6	2.4	3.4	0.5	3.8	0.1	(NA)	(NA)
2335	Women's and misses' dresses -----	E2	17	13	1.3	7.8	1.2	2.0	6.9	9.9	2.4	12.3	0.1	(NA)	(NA)
236	Children's outerwear -----	-	10	9	0.8	5.4	0.8	1.2	4.0	7.2	7.9	15.2	0.1	(NA)	(NA)
24	Lumber and wood products -----	-	57	19	1.2	11.7	1.0	2.1	9.0	24.4	24.1	48.5	1.6	(NA)	(NA)
243	Millwork, plywood, and structural members -----	-	17	10	0.8	7.8	0.7	1.4	6.1	18.6	15.0	33.6	0.7	(NA)	(NA)
25	Furniture and fixtures -----	-	33	16	2.4	28.4	2.0	4.0	21.6	59.8	43.9	99.4	1.9	(NA)	(NA)
251	Household furniture -----	-	20	11	0.7	6.0	0.6	1.4	4.9	13.1	10.1	22.9	(D)	(NA)	(NA)
2511	Wood household furniture -----	-	16	8	0.5	4.5	0.5	1.1	3.8	10.5	8.2	18.5	(D)	(NA)	(NA)
26	Paper and allied products -----	-	30	24	3.5	49.4	2.8	6.1	35.4	110.9	138.9	249.1	8.0	(NA)	(NA)
2653	Corrugated and solid fiber boxes -----	-	8	7	1.0	11.4	0.8	1.6	7.6	23.4	38.8	62.0	1.8	(NA)	(NA)
27	Printing and publishing -----	-	68	27	3.9	45.2	3.1	5.9	34.1	86.8	59.6	146.3	6.0	(NA)	(NA)
2711	Newspapers -----	-	4	4	0.6	5.8	0.3	0.5	3.4	13.1	3.4	16.5	(D)	(NA)	(NA)
273	Books -----	-	6	4	0.7	7.1	0.6	1.1	6.0	10.7	7.2	17.5	(D)	(NA)	(NA)
275	Commercial printing -----	-	38	9	1.3	12.9	1.0	1.9	9.0	19.1	12.4	31.3	1.5	(NA)	(NA)
2751	Commercial printing, letterpress -----	-	20	4	0.5	6.0	0.3	0.6	3.6	10.0	6.5	16.4	(D)	(NA)	(NA)
279	Printing trade services -----	-	10	5	0.6	8.2	0.5	1.1	6.9	11.4	2.1	13.0	0.7	(NA)	(NA)
2791	Typesetting -----	-	7	5	0.6	8.0	0.5	1.1	6.8	11.3	1.8	12.6	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	18	7	0.9	8.9	0.8	1.5	6.5	13.2	14.2	27.6	0.5	(NA)	(NA)
31	Leather and leather products -----	-	15	10	2.4	16.2	2.3	4.4	14.6	31.6	36.8	68.0	0.9	(NA)	(NA)
3131	Boot and shoe cut stock and findings -----	E4	6	3	0.3	1.7	0.2	0.4	1.3	2.9	4.5	7.3	(D)	(NA)	(NA)
3143	Men's footwear, except athletic -----	-	4	4	1.3	9.1	1.2	2.4	8.6	16.3	24.8	41.0	0.2	(NA)	(NA)
32	Stone, clay, and glass products -----	-	32	12	1.6	19.0	1.3	2.6	15.0	52.4	42.5	93.9	4.8	(NA)	(NA)
325	Structural clay products -----	-	5	3	0.3	2.6	0.3	0.5	2.3	6.6	4.6	11.0	(D)	(NA)	(NA)
327	Concrete, gypsum, and plaster products -----	-	17	5	0.3	4.7	0.3	0.6	3.5	13.7	13.9	27.5	2.9	(NA)	(NA)
33	Primary metal industries -----	-	26	18	3.8	44.8	2.8	5.2	29.7	89.8	92.5	186.6	3.1	(NA)	(NA)
332	Iron and steel foundries -----	-	4	4	0.7	7.3	0.6	1.0	5.9	9.9	8.9	18.4	(D)	(NA)	(NA)
335	Nonferrous rolling and drawing -----	-	4	4	0.7	7.6	0.5	1.1	5.4	14.6	30.7	44.5	0.4	(NA)	(NA)
336	Nonferrous foundries -----	-	9	5	0.6	6.5	0.5	0.9	4.5	12.7	6.4	19.3	0.5	(NA)	(NA)
3361	Aluminum foundries -----	-	9	5	0.6	6.5	0.5	0.9	4.5	12.7	6.4	19.3	0.5	(NA)	(NA)
34	Fabricated metal products -----	-	56	27	3.3	41.5	2.5	5.0	28.5	85.2	110.3	198.4	4.9	(NA)	(NA)
344	Fabricated structural metal products -----	-	17	8	1.0	11.9	0.7	1.4	7.5	22.1	28.2	50.8	0.4	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	14	6	0.6	6.9	0.5	1.0	5.1	10.8	17.7	31.5	0.6	(NA)	(NA)
35	Machinery, except electrical -----	-	115	40	11.5	196.8	7.8	15.4	111.8	353.0	319.4	659.5	30.6	(NA)	(NA)
353	Construction and related machinery -----	-	13	11	3.8	68.2	2.8	5.6	48.5	171.9	123.2	290.9	(D)	(NA)	(NA)
354	Metalworking machinery -----	E1	25	5	0.4	4.7	0.3	0.5	3.1	7.3	3.4	10.6	(D)	(NA)	(NA)
355	Special industry machinery -----	-	10	6	0.7	10.1	0.5	1.1	6.3	20.4	12.6	32.2	0.3	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E3	46	8	0.5	6.0	0.4	0.8	4.1	8.8	5.3	14.1	0.7	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E3	46	8	0.5	6.0	0.4	0.8	4.1	8.8	5.3	14.1	0.7	(NA)	(NA)
36	Electric and electronic equipment -----	-	30	21	4.3	56.4	3.4	6.3	34.9	153.3	108.7	260.5	6.1	(NA)	(NA)
362	Electrical industrial apparatus -----	-	9	9	1.9	25.5	1.4	2.4	15.5	62.0	56.9	117.6	(D)	(NA)	(NA)
37	Transportation equipment -----	-	19	7	3.6	47.1	2.9	6.1	37.3	166.8	180.3	310.1	6.4	(NA)	(NA)
--	Administrative and auxiliary -----	-	20	9	1.3	18.3	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.

(Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
	Adams County -----	-	129	57	6.9	60.1	5.6	10.8	42.6	152.6	200.2	352.1	7.2	6.7	92.7
20	Food and kindred products --	-	21	8	1.5	13.4	1.2	2.4	9.7	47.4	100.5	147.9	2.5	1.2	26.7
23	Apparel and other textile products -----	E2	15	9	0.6	3.8	0.6	1.0	3.2	6.5	3.8	10.3	0.1	0.6	4.2
27	Printing and publishing -----	E1	11	5	0.5	4.7	0.4	0.7	3.3	10.2	6.2	16.0	1.4	(NA)	(NA)
31	Leather and leather products -----	-	5	5	1.1	7.2	1.1	2.1	6.4	15.9	11.8	27.5	(D)	1.4	13.1
	Allegheny County -----	-	1 736	586	150.3	2 629.1	87.0	165.4	1 307.1	3 957.1	5 822.9	9 676.7	226.1	169.8	2 402.3
20	Food and kindred products --	-	121	48	7.8	103.8	4.8	9.3	58.6	283.5	360.0	640.1	13.8	11.1	233.0
202	Dairy products -----	E1	21	8	1.1	13.9	0.4	0.9	5.3	30.2	84.0	113.9	(D)	2.1	39.0
265	Paperboard containers and boxes -----	E1	11	6	0.7	9.3	0.5	1.1	6.2	15.5	26.5	41.3	1.8	1.2	14.8
27	Printing and publishing -----	-	267	57	6.9	101.1	4.3	7.8	58.7	198.8	122.6	319.9	11.4	6.2	111.0
2711	Newspapers -----	-	29	8	2.9	46.6	1.2	2.2	20.5	102.0	36.6	138.6	(D)	(NA)	(NA)
275	Commercial printing -----	-	159	31	2.7	39.0	2.2	3.9	28.5	65.7	68.9	133.5	3.2	2.3	33.3
2752	Commercial printing, lithographic -----	-	75	26	2.1	32.1	1.7	3.1	23.7	52.8	57.3	109.1	(D)	(NA)	(NA)
278	Blankbooks and bookbinding -----	-	11	6	0.5	6.0	0.4	0.9	4.4	12.9	5.1	18.0	0.6	0.5	7.6
28	Chemicals and allied products -----	-	80	29	3.9	56.9	2.5	4.9	30.2	176.5	276.3	446.6	16.0	4.0	85.8
282	Plastics materials and synthetics -----	-	8	7	1.3	19.6	0.9	1.8	11.7	59.2	97.5	155.5	6.8	(NA)	(NA)
289	Miscellaneous chemical products -----	-	23	8	0.6	8.4	0.4	0.8	5.2	15.3	31.3	46.2	1.0	(NA)	(NA)
29	Petroleum and coal products -	-	19	5	0.5	8.0	0.3	0.7	4.6	21.5	87.2	107.9	2.3	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	44	13	1.6	16.0	1.2	2.2	9.6	28.5	28.1	56.1	1.7	1.6	22.1
32	Stone, clay, and glass products -----	-	115	34	4.3	59.5	3.5	6.7	44.7	132.7	128.0	260.8	10.1	5.2	115.3
327	Concrete, gypsum, and plaster products -----	E2	41	10	0.6	7.6	0.4	0.8	5.3	15.8	22.2	37.9	3.3	0.7	15.5
329	Miscellaneous nonmetallic mineral products -----	-	39	13	0.9	11.9	0.7	1.4	8.5	26.7	26.9	53.4	2.7	1.3	24.0
33	Primary metal industries -----	-	73	39	43.5	823.0	35.5	66.1	642.6	1 605.9	3 535.7	5 082.5	102.7	45.5	747.1
331	Blast furnace and basic steel products -----	-	20	13	39.3	755.8	32.3	60.2	594.1	1 466.3	3 347.8	4 754.4	92.2	41.5	688.3
332	Iron and steel foundries -----	-	13	11	2.3	40.0	1.8	3.4	30.6	61.5	86.0	151.6	6.4	2.6	40.1
336	Nonferrous foundries -----	-	11	5	0.5	5.4	0.3	0.5	2.9	6.2	6.3	12.4	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	249	100	13.4	213.5	9.7	19.2	145.6	415.4	518.7	922.7	16.1	15.6	281.7
344	Fabricated structural metal products -----	-	109	41	5.3	75.4	3.5	6.6	44.2	142.1	259.3	391.5	5.0	6.0	85.2
3441	Fabricated structural metal -----	-	37	16	2.1	27.2	1.5	2.7	18.1	45.7	76.5	118.5	1.5	(NA)	(NA)
3443	Fabricated plate work (boiler shops) -----	-	17	11	1.4	22.6	1.0	1.9	13.9	44.6	35.9	81.4	2.6	(NA)	(NA)
345	Screw machine products, bolts, etc. -----	E1	14	6	0.6	7.4	0.4	0.9	5.2	17.2	11.2	27.8	2.0	0.7	12.2
346	Metal forgings and stampings -----	-	16	9	3.6	76.9	2.8	6.2	59.8	127.4	144.6	270.2	(D)	(NA)	(NA)
35	Machinery, except electrical --	-	241	62	14.7	236.2	9.6	18.8	130.8	452.0	309.0	765.5	18.5	17.5	393.2
354	Metalworking machinery ---	-	48	21	3.5	58.2	2.3	4.3	32.4	106.9	68.6	213.4	7.1	4.4	83.9
3547	Rolling mill machinery ---	-	8	4	1.8	32.3	1.2	2.2	17.2	63.3	38.7	137.2	(D)	(NA)	(NA)
3549	Metalworking machinery, n.e.c. -----	-	8	6	0.7	8.7	0.4	0.7	4.1	16.0	9.1	26.3	(D)	(NA)	(NA)
355	Special industry machinery ---	-	16	5	0.9	11.3	0.7	1.1	7.7	21.4	25.4	44.4	1.2	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E3	106	10	0.8	10.4	0.6	1.2	7.0	18.8	8.9	27.4	1.2	0.7	12.4
36	Electric and electronic equipment -----	-	80	33	7.3	106.0	4.7	8.8	58.2	230.4	134.6	359.0	10.7	8.2	147.5
395	Pens, pencils, office and art supplies -----	-	11	5	0.6	7.1	0.3	0.7	3.7	13.0	13.1	25.6	0.4	0.6	9.2
-	Administrative and auxiliary --	-	104	68	31.0	707.4	-	-	-	-	-	-	-	(NA)	(NA)
	Armstrong County -----	-	79	34	4.9	63.1	3.9	7.6	45.2	133.0	116.9	247.8	8.1	4.2	57.3
28	Chemicals and allied products -----	-	5	4	0.5	8.2	0.4	0.9	5.0	18.2	14.9	34.1	(D)	0.5	11.9
32	Stone, clay, and glass products -----	-	15	13	2.1	28.5	1.7	3.2	21.6	58.1	34.5	92.2	2.3	2.2	40.4
325	Structural clay products ---	-	7	7	0.5	6.6	0.4	0.8	4.7	14.7	7.5	22.1	(D)	0.5	8.8

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977											1972		
			E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Beaver County -----	-	186	77	35.7	628.8	27.9	53.9	476.9	987.2	1 502.3	2 488.2	138.4	36.5	734.4	
27	Printing and publishing -----	-	14	3	0.5	3.8	0.1	0.1	0.8	7.2	2.1	9.2	0.5	(NA)	(NA)	
32	Stone, clay, and glass products -----	-	23	9	1.8	22.9	1.5	3.0	17.4	49.0	25.4	74.0	2.5	1.9	29.7	
33	Primary metal industries -----	-	24	19	24.9	473.5	20.4	39.6	378.1	646.2	1 152.4	1 783.3	119.8	24.9	509.1	
331	Blast furnace and basic steel products -----	-	11	10	22.4	435.0	18.5	36.2	352.4	574.1	1 037.3	1 597.0	(D)	22.7	472.6	
3312	Blast furnaces and steel mills -----	-	5	5	21.5	420.6	17.8	34.9	341.2	544.9	965.7	1 496.5	(D)	(NA)	(NA)	
34	Fabricated metal products ---	-	24	14	2.8	42.4	2.0	3.5	27.9	84.8	73.8	147.8	1.7	3.4	57.0	
344	Fabricated structural metal products -----	-	10	5	2.1	32.4	1.4	2.4	21.0	68.4	57.2	113.2	0.6	2.5	43.3	
35	Machinery, except electrical --	E1	24	8	0.5	7.7	0.4	0.9	6.1	20.8	6.2	27.2	2.1	(NA)	(NA)	
	Bedford County -----	-	50	18	2.0	21.5	1.5	2.9	14.8	53.5	95.1	144.4	3.4	2.5	37.3	
	Berks County (Coextensive with Reading, Pa., SMSA; see table 6.)															
	Blair County (Coextensive with Altoona, Pa., SMSA; see table 6.)															
	Bradford County -----	-	79	31	6.0	73.5	4.5	9.3	47.3	239.7	203.8	441.3	13.6	5.5	109.5	
20	Food and kindred products --	-	10	4	0.5	5.3	0.3	0.6	3.6	14.7	54.3	69.0	0.3	(NA)	(NA)	
	Bucks County -----	-	1 046	388	49.2	696.2	35.3	69.6	440.3	1 394.8	1 738.0	3 120.6	73.9	46.3	860.4	
20	Food and kindred products --	-	46	22	1.9	22.7	1.4	2.6	14.2	59.0	114.9	174.6	2.1	1.7	24.0	
22	Textile mill products -----	E1	24	15	1.0	7.9	0.8	1.5	6.1	15.6	17.8	34.1	0.6	1.4	15.1	
23	Apparel and other textile products -----	-	31	19	2.1	17.4	1.7	3.2	12.6	33.8	38.4	72.3	0.2	2.9	28.2	
233	Women's and misses' outerwear -----	-	14	9	1.0	8.3	0.7	1.3	4.8	22.7	24.8	47.6	0.1	0.9	5.8	
25	Furniture and fixtures -----	-	29	11	0.8	8.2	0.6	1.1	5.5	16.1	9.8	25.3	0.5	0.6	6.6	
26	Paper and allied products ---	-	37	24	3.1	40.7	2.3	4.7	26.3	119.1	138.9	255.0	5.3	2.9	67.8	
2641	Paper coating and glazing -----	-	7	5	1.1	16.6	0.8	1.7	11.3	71.4	62.7	131.6	1.9	(NA)	(NA)	
265	Paperboard containers and boxes -----	-	17	11	1.0	14.2	0.7	1.6	9.3	28.7	48.6	77.4	1.3	1.0	15.1	
2653	Corrugated and solid fiber boxes -----	-	9	5	0.5	8.1	0.4	0.8	4.7	14.3	20.7	35.1	0.7	(NA)	(NA)	
27	Printing and publishing -----	-	94	26	2.5	28.2	1.7	3.1	17.2	62.8	40.5	103.0	11.1	1.7	26.1	
2761	Manifold business forms --	-	8	6	0.5	7.0	0.3	0.8	4.6	19.0	17.1	35.8	0.6	(NA)	(NA)	
28	Chemicals and allied products -----	-	39	15	2.8	43.2	1.8	3.7	24.8	162.5	226.4	390.3	11.6	3.8	98.6	
30	Rubber and miscellaneous plastics products -----	-	60	29	2.3	25.0	1.8	3.5	17.4	48.5	44.8	93.2	3.9	2.1	28.4	
3079	Miscellaneous plastics products -----	-	54	25	1.9	19.8	1.5	2.9	13.6	40.3	40.0	80.2	3.6	(NA)	(NA)	
32	Stone, clay, and glass products -----	E1	52	20	1.8	22.6	1.4	2.7	16.2	40.5	41.0	81.8	3.6	1.9	29.1	
3231	Products of purchased glass -----	-	8	3	0.6	7.5	0.4	0.8	5.5	13.4	18.1	31.6	(D)	(NA)	(NA)	
327	Concrete, gypsum, and plaster products -----	E2	24	9	0.5	6.8	0.4	0.8	4.6	12.8	12.9	25.9	1.5	0.5	11.0	
34	Fabricated metal products ---	E1	123	51	4.2	56.8	3.2	6.5	39.0	128.6	178.8	303.9	6.5	3.8	70.7	
344	Fabricated structural metal products -----	E3	40	17	0.9	11.6	0.7	1.4	7.1	24.0	29.4	54.6	1.4	1.1	21.9	
349	Miscellaneous fabricated metal products -----	-	27	10	1.0	12.5	0.8	1.5	8.3	26.1	18.6	43.9	2.2	0.7	13.4	
35	Machinery, except electrical --	E1	233	54	5.0	71.3	3.4	6.9	42.9	137.9	90.7	226.6	5.8	3.8	65.1	
354	Metalworking machinery ---	-	55	10	0.8	13.6	0.6	1.4	10.2	20.9	8.3	28.6	1.1	0.6	11.2	
3544	Special dies, tools, jigs, and fixtures -----	-	49	9	0.7	12.4	0.5	1.3	9.2	18.9	7.4	25.8	(D)	(NA)	(NA)	
356	General industrial machinery -----	-	27	10	1.5	21.3	0.9	1.9	12.1	46.5	32.6	78.5	1.4	1.1	18.5	
358	Refrigeration and service machinery -----	-	7	4	0.6	7.7	0.3	0.7	4.2	18.2	14.1	32.2	0.3	(NA)	(NA)	
36	Electric and electronic equipment -----	-	76	33	4.3	53.5	3.0	5.7	31.0	104.2	126.1	228.6	4.5	3.6	56.0	
364	Electric lighting and wiring equipment -----	-	12	7	1.1	11.4	0.8	1.7	7.2	30.0	52.7	82.9	1.5	1.6	25.7	
368	Communication equipment --	E1	15	8	0.7	8.7	0.5	0.9	4.7	15.4	11.8	26.4	0.6	(NA)	(NA)	
367	Electronic components and accessories -----	E2	27	9	0.8	8.2	0.7	1.3	5.2	16.6	10.2	26.7	1.3	0.5	7.2	

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972		
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Bucks County—Con.														
37	Transportation equipment ---	-	20	7	0.9	12.3	0.7	1.5	8.4	24.2	32.4	57.2	1.4	1.9	66.4
38	Instruments and related														
	products -----	-	43	16	4.8	69.2	3.2	7.3	39.5	120.2	50.4	167.7	4.5	4.2	70.9
382	Measuring and controlling														
	devices -----	-	18	10	4.5	64.9	2.9	6.8	37.1	110.5	44.0	151.6	(D)	3.5	58.0
39	Miscellaneous manufacturing														
	industries -----	E1	39	13	0.8	8.7	0.7	1.2	5.9	16.4	13.0	29.3	0.6	0.5	8.1
399	Miscellaneous manufactures														
	-----	E1	22	9	0.5	5.5	0.4	0.6	3.6	11.1	8.5	19.5	0.4	(NA)	(NA)
-	Administrative and auxiliary --	-	14	8	1.5	32.4	-	-	-	-	-	-	-	(NA)	(NA)
	Butler County -----	-	200	85	14.1	222.8	10.7	20.8	155.7	472.0	685.0	1 150.1	49.8	13.2	241.8
28	Chemicals and allied products														
	-----	-	12	7	0.8	10.0	0.6	1.2	6.8	39.4	42.8	83.3	(D)	0.7	19.5
30	Rubber and miscellaneous plastics products														
	-----	-	6	4	0.5	4.7	0.3	0.6	3.3	9.2	6.5	15.7	0.2	0.5	6.3
32	Stone, clay, and glass products														
	-----	-	30	12	1.3	17.4	1.1	2.1	12.7	44.5	35.3	80.0	4.7	1.3	27.5
34	Fabricated metal products														
	-----	-	24	11	0.7	8.1	0.5	1.0	4.6	19.9	22.5	42.0	1.1	0.6	7.7
35	Machinery, except electrical --	-	37	18	1.5	21.6	1.0	2.0	11.4	38.0	39.1	79.6	6.3	1.5	25.4
	Cambria County -----	-	169	61	16.6	257.1	13.0	22.3	187.7	386.2	499.1	922.5	23.7	19.2	296.8
23	Apparel and other textile products														
	-----	E1	19	16	1.9	11.0	1.8	2.9	9.8	16.9	11.0	27.6	0.2	2.0	18.6
232	Men's and boys' furnishings														
	-----	E1	3	3	0.5	3.0	0.5	0.8	2.8	4.8	5.5	10.0	(D)	(NA)	(NA)
2321	Men's and boys' shirts and nightwear														
	-----	E1	3	3	0.5	3.0	0.5	0.8	2.8	4.8	5.5	10.0	(D)	(NA)	(NA)
	Cameron County -----	-	23	7	1.2	14.6	1.0	2.0	11.5	27.2	14.0	41.1	1.9	1.5	23.2
	Carbon County -----	-	113	53	7.1	61.3	6.2	10.8	48.6	131.0	138.5	266.9	16.1	6.9	88.0
2331	Women's and misses' blouses and waists														
	-----	-	21	19	1.7	10.2	1.6	2.5	9.2	12.2	0.8	13.0	0.5	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.														
	-----	-	8	7	1.1	7.2	1.1	1.8	6.3	10.0	1.0	10.7	0.3	(NA)	(NA)
33	Primary metal industries														
	-----	-	8	6	1.6	21.4	1.4	2.6	16.6	40.4	83.5	122.1	6.2	1.3	20.7
	Centre County -----	-	109	41	6.9	73.5	5.4	10.6	52.9	170.6	157.9	325.8	6.8	6.7	127.1
27	Printing and publishing														
	-----	-	20	6	0.6	4.8	0.4	0.7	2.9	10.5	4.3	14.8	(D)	(NA)	(NA)
32	Stone, clay, and glass products														
	-----	-	8	7	1.3	17.1	1.0	1.9	12.4	44.3	30.0	73.1	2.4	1.3	45.4
36	Electric and electronic equipment														
	-----	-	11	6	1.4	11.3	1.1	2.4	8.0	19.0	11.4	30.3	0.7	1.3	13.3
38	Instruments and related products														
	-----	-	11	4	0.5	4.2	0.4	0.7	2.7	7.9	5.4	13.1	0.7	(NA)	(NA)
	Chester County -----	-	511	215	35.2	491.9	23.1	45.0	275.8	1 067.5	1 103.0	2 159.2	68.9	34.3	661.9
20	Food and kindred products														
	-----	-	39	18	3.5	38.3	2.9	5.9	30.0	101.2	172.1	273.3	5.4	3.8	68.0
203	Preserved fruits and vegetables														
	-----	-	12	8	1.8	16.0	1.6	3.2	13.5	41.8	78.6	120.5	2.1	1.9	33.8
23	Apparel and other textile products														
	-----	E1	19	10	0.7	3.9	0.6	1.0	3.3	6.9	8.7	14.8	0.3	1.1	5.8
26	Paper and allied products														
	-----	-	19	13	1.2	15.8	1.0	2.0	11.6	30.9	40.0	70.8	1.4	1.3	23.4
27	Printing and publishing														
	-----	-	56	12	2.8	35.9	1.7	3.1	20.3	71.8	47.0	119.1	4.2	2.0	34.6
275	Commercial printing														
	-----	-	36	5	1.3	18.1	0.9	1.7	12.1	35.0	31.4	66.1	3.3	1.3	25.7
2751	Commercial printing, letterpress														
	-----	-	22	1	0.5	4.6	0.3	0.6	2.7	8.6	4.9	13.4	(D)	(NA)	(NA)
28	Chemicals and allied products														
	-----	-	29	15	2.7	37.4	2.3	4.2	29.8	230.8	109.6	339.5	10.3	2.8	170.4
30	Rubber and miscellaneous plastics products														
	-----	-	19	15	2.1	27.3	1.6	3.2	18.4	60.7	77.6	136.4	6.1	1.4	25.3
32	Stone, clay, and glass products														
	-----	-	27	9	0.7	9.4	0.5	1.1	6.5	19.8	18.7	38.5	1.9	1.2	22.7
331	Blast furnace and basic steel products														
	-----	-	8	7	5.1	96.6	3.3	6.6	58.0	158.4	195.6	355.1	(D)	5.6	119.7
34	Fabricated metal products														
	-----	E1	59	24	2.2	32.8	1.6	3.3	20.4	67.3	67.0	136.5	2.9	2.6	56.2
344	Fabricated structural metal products														
	-----	-	21	9	1.2	19.8	0.8	1.6	11.8	41.1	46.8	90.4	1.9	1.0	24.3
349	Miscellaneous fabricated metal products														
	-----	-	17	8	0.5	6.0	0.4	0.8	4.4	10.7	10.5	21.1	0.5	(NA)	(NA)
355	Special industry machinery														
	-----	-	12	7	0.5	7.2	0.3	0.6	3.8	14.8	8.3	23.8	(D)	(NA)	(NA)
36	Electric and electronic equipment														
	-----	-	37	14	2.0	20.2	1.6	2.9	12.7	45.2	37.2	81.9	3.3	3.2	30.3
38	Instruments and related products														
	-----	-	13	7	0.9	13.3	0.5	1.2	6.7	41.2	30.8	70.7	(D)	0.7	16.0
-	Administrative and auxiliary --	-	27	16	2.5	47.5	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
24	Clarion County -----	-	55	17	2.6	31.8	2.2	4.3	25.3	79.0	50.4	139.5	5.7	2.7	50.3
	Lumber and wood products --	-	20	5	0.5	5.0	0.4	0.7	3.6	9.1	18.2	27.3	1.3	0.6	7.2
	Clearfield County -----	-	134	51	7.2	69.3	5.8	11.2	51.1	123.2	232.4	356.2	7.9	5.7	82.2
23	Apparel and other textile products -----	-	15	13	1.7	11.2	1.5	2.6	9.1	16.0	27.8	44.2	0.3	1.3	8.8
232	Men's and boys' furnishings -----	E2	6	6	0.8	4.4	0.7	1.2	3.8	5.6	2.9	8.6	0.1	0.7	4.9
32	Stone, clay, and glass products -----	-	17	8	0.9	11.4	0.6	1.3	7.9	18.2	20.3	38.2	2.0	1.1	16.2
325	Structural clay products ---	-	7	6	0.8	10.3	0.6	1.2	7.2	15.7	17.1	32.5	1.7	0.7	11.8
34	Fabricated metal products ---	-	12	5	0.5	6.9	0.4	0.9	4.7	17.8	12.0	29.1	1.3	(NA)	(NA)
22	Clinton County -----	-	50	22	6.1	72.0	5.0	9.8	53.8	111.2	177.4	279.2	12.0	6.2	75.3
	Textile mill products -----	-	3	3	1.1	9.0	1.0	2.1	7.5	14.5	29.3	42.4	(D)	(NA)	(NA)
	Columbia County -----	-	128	62	8.5	82.7	6.9	13.2	59.7	168.0	204.3	368.0	8.1	11.7	149.7
20	Food and kindred products --	-	20	4	1.6	18.0	1.1	2.4	11.3	41.0	59.3	100.6	(D)	1.8	38.9
22	Textile mill products -----	-	16	13	1.8	15.9	1.6	3.5	12.7	24.2	39.2	63.7	0.7	3.3	29.4
2221	Weaving mills, manmade fiber and silk -----	-	4	4	0.6	5.6	0.6	1.4	4.6	9.2	12.2	21.4	(D)	(NA)	(NA)
23	Apparel and other textile products -----	E1	20	16	1.1	7.3	1.0	1.8	6.4	14.8	7.4	22.1	0.2	1.7	10.4
233	Women's and misses' outerwear -----	E1	8	6	0.5	3.2	0.5	0.7	2.9	6.4	3.2	9.6	(Z)	0.7	3.7
24	Lumber and wood products --	E2	15	5	0.5	4.4	0.4	0.7	3.4	9.9	11.8	21.5	1.1	0.9	10.5
34	Fabricated metal products ---	-	10	6	0.9	10.8	0.6	1.3	7.1	23.1	27.0	49.7	0.5	1.0	15.4
28	Crawford County -----	-	108	69	10.6	135.5	7.9	15.5	92.3	288.2	304.5	586.1	14.0	11.0	191.4
	Chemicals and allied products -----	-	4	3	1.4	17.7	0.9	1.8	10.5	44.9	43.1	87.9	(D)	(NA)	(NA)
	Rubber and miscellaneous plastics products -----	E1	11	5	0.7	7.5	0.5	1.1	5.4	14.0	15.4	29.0	0.8	0.7	7.5
34	Fabricated metal products ---	-	18	11	1.5	16.4	1.3	2.6	12.1	35.0	35.5	68.8	2.6	1.7	31.0
35	Machinery, except electrical --	-	65	18	1.5	20.0	1.1	2.2	13.4	35.8	19.5	55.3	1.9	0.9	18.3
354	Metalworking machinery ---	-	44	12	0.9	12.2	0.7	1.4	8.9	22.8	10.5	33.2	1.2	0.6	12.4
36	Electric and electronic equipment -----	-	8	7	0.7	7.3	0.5	1.0	5.0	17.0	19.9	35.5	0.4	0.9	15.0
20	Cumberland County -----	-	187	82	14.8	166.9	10.6	20.9	110.4	454.8	589.3	1 038.4	23.8	15.1	254.6
	Food and kindred products --	-	20	13	1.5	18.8	1.1	2.1	11.9	133.1	264.5	397.7	(D)	(NA)	(NA)
	Printing and publishing -----	E1	34	7	0.6	5.5	0.4	0.7	3.4	11.8	6.3	18.1	0.4	(NA)	(NA)
27	Electronic components, n.e.c. -----	-	10	8	1.5	13.9	1.1	2.1	7.9	20.8	7.7	29.7	1.3	(NA)	(NA)
3679	Administrative and auxiliary --	-	13	6	1.1	10.4	-	-	-	-	-	-	-	(NA)	(NA)
20	Dauphin County -----	-	270	110	24.8	342.2	16.1	29.7	187.0	597.0	818.9	1 506.3	42.4	24.2	452.5
	Food and kindred products --	-	33	20	6.3	82.0	3.9	7.5	45.9	269.0	361.0	631.8	(D)	6.5	169.6
	Apparel and other textile products -----	-	29	24	1.8	11.9	1.7	2.8	10.4	20.2	8.7	28.6	0.5	1.7	12.1
23	Women's and misses' outerwear -----	E1	15	14	1.0	6.5	0.9	1.5	5.6	10.7	4.0	14.4	0.4	0.8	5.6
233	Women's and misses' dresses -----	E1	11	10	0.7	4.7	0.7	1.1	3.9	8.1	3.4	11.2	0.3	(NA)	(NA)
27	Printing and publishing -----	E1	58	10	1.3	16.0	0.8	1.4	8.9	33.8	19.6	53.3	0.9	1.5	26.1
275	Commercial printing -----	-	36	7	0.6	7.1	0.5	0.9	5.5	12.6	9.8	22.3	0.4	(NA)	(NA)
20	Delaware County -----	-	559	187	44.8	720.3	25.0	48.3	343.5	1 806.0	2 864.3	4 680.1	96.4	40.2	946.4
	Food and kindred products --	-	26	13	1.9	21.1	1.3	2.7	12.1	54.1	136.2	189.1	1.7	1.6	25.9
	Meat products -----	-	4	4	0.7	8.5	0.5	1.0	5.2	29.0	92.1	120.4	0.7	0.7	13.7
23	Apparel and other textile products -----	-	25	8	0.9	10.2	0.5	1.0	3.9	45.6	64.6	99.3	0.7	0.9	16.1
25	Furniture and fixtures -----	-	17	3	0.5	4.8	0.4	0.8	3.1	10.3	10.5	20.7	0.1	(NA)	(NA)
251	Household furniture -----	-	9	3	0.5	4.4	0.4	0.7	2.9	8.9	9.7	18.5	0.1	(NA)	(NA)
27	Printing and publishing -----	-	110	21	3.4	40.8	1.1	1.9	10.6	219.9	151.2	371.1	3.1	2.4	95.7
28	Chemicals and allied products -----	-	28	9	0.9	15.0	0.6	1.2	8.4	44.9	63.5	108.9	2.7	1.1	25.9
281	Industrial inorganic chemicals -----	-	5	3	0.5	7.9	0.3	0.6	5.0	21.0	28.4	49.6	(D)	0.6	13.4

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
		E ¹													
	Delaware County—Con.														
30	Rubber and miscellaneous plastics products -----	-	26	8	0.8	11.7	0.5	1.1	6.3	20.7	30.4	54.6	1.9	2.2	25.1
33	Primary metal industries -----	-	15	8	0.9	11.4	0.7	1.1	7.8	13.9	31.4	51.9	1.4	1.0	12.3
34	Fabricated metal products ---	-	63	24	1.9	24.4	1.5	3.0	16.9	50.6	42.4	92.4	2.2	2.1	33.7
344	Fabricated structural metal products -----	E1	27	9	0.6	8.1	0.5	0.8	5.6	14.8	17.4	31.9	0.4	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	12	7	0.7	8.4	0.6	1.2	6.1	17.4	10.9	28.0	0.3	0.7	8.4
35	Machinery, except electrical --	-	98	28	7.7	129.4	4.5	8.1	62.9	158.7	209.6	363.4	7.6	(NA)	(NA)
36	Electric and electronic equipment -----	-	21	9	1.3	15.1	0.9	1.8	9.0	25.9	13.8	40.5	1.3	1.5	23.8
38	Instruments and related products -----	E1	19	4	0.7	7.1	0.5	0.9	3.8	17.4	9.8	26.7	0.4	0.7	9.8
-	Administrative and auxiliary --	-	24	17	4.8	91.4	-	-	-	-	-	-	-	(NA)	(NA)
	Elk County -----	-	87	32	8.0	100.6	5.2	12.0	70.0	191.2	159.4	343.2	13.8	8.4	143.7
34	Fabricated metal products ---	-	9	4	0.6	6.8	0.5	1.0	5.4	11.0	7.3	18.2	2.4	(NA)	(NA)
35	Machinery, except electrical --	-	26	6	1.6	19.6	1.3	2.5	14.1	31.1	27.2	57.4	2.5	(NA)	(NA)
36	Electric and electronic equipment -----	-	7	7	3.9	49.8	3.0	5.5	33.2	97.1	58.7	150.4	(D)	4.5	90.8
	Erie County (Coextensive with Erie, Pa., SMSA; see table 6.)														
	Fayette County -----	-	143	45	7.8	87.5	6.3	11.1	64.8	182.0	181.8	362.3	11.6	8.0	117.8
23	Apparel and other textile products -----	-	10	9	1.2	7.6	1.1	1.8	6.7	9.1	5.8	14.9	0.1	1.8	9.5
34	Fabricated metal products ---	-	13	5	1.0	11.7	0.8	1.4	9.5	25.7	29.4	55.1	(D)	1.2	20.5
35	Machinery, except electrical --	-	18	7	0.5	6.0	0.2	0.4	2.7	9.9	10.6	20.2	0.2	(NA)	(NA)
	Forest County -----	-	6	3	0.5	5.8	0.5	0.9	5.0	14.9	12.0	26.6	0.5	0.6	11.1
	Franklin County -----	-	156	69	14.6	155.9	11.3	20.5	107.7	302.7	293.8	602.8	12.4	13.0	200.1
20	Food and kindred products --	-	16	9	0.7	6.9	0.6	1.0	4.8	29.5	49.7	79.3	2.6	1.0	28.2
23	Apparel and other textile products -----	-	13	13	3.5	27.0	3.3	5.1	24.3	58.7	28.7	86.4	0.6	3.3	22.9
2335	Women's and misses' dresses -----	E4	5	5	0.5	2.7	0.5	0.8	2.4	4.0	1.9	5.9	0.1	(NA)	(NA)
24	Lumber and wood products --	-	31	7	0.5	5.9	0.5	1.0	4.5	11.3	19.1	30.4	1.0	0.5	7.3
27	Printing and publishing -----	E1	16	4	0.5	4.4	0.3	0.6	3.0	6.6	4.0	10.6	0.1	0.5	5.1
31	Leather and leather products -----	-	4	4	0.6	4.6	0.6	1.2	4.0	8.6	10.1	18.5	(D)	(NA)	(NA)
35	Machinery, except electrical --	-	30	13	6.7	85.6	4.5	8.5	52.9	147.0	128.7	283.0	4.9	5.2	98.4
354	Metalworking machinery ---	-	7	5	1.7	23.9	1.0	2.4	13.5	41.7	16.3	57.0	2.7	1.8	31.6
	Greene County -----	-	33	9	0.7	5.3	0.5	0.8	3.8	9.1	18.1	26.7	0.3	(D)	(D)
	Huntingdon County -----	-	53	15	3.2	32.1	2.7	4.8	25.4	79.9	55.0	136.7	5.4	3.9	51.4
	Indiana County -----	-	84	28	6.3	75.1	4.4	8.7	46.8	167.6	160.9	332.2	9.9	5.3	87.5
34	Fabricated metal products ---	-	10	6	1.5	16.4	1.2	2.2	11.2	38.2	34.0	71.8	1.6	0.8	9.4
35	Machinery, except electrical --	-	18	4	0.9	12.7	0.5	1.1	6.8	24.8	17.6	41.8	(D)	(NA)	(NA)
	Jefferson County -----	-	99	39	6.3	66.0	4.9	9.1	43.8	114.3	92.3	206.8	12.3	5.0	58.9
23	Apparel and other textile products -----	-	4	4	0.5	3.1	0.5	0.8	2.4	4.7	3.5	8.2	(D)	0.5	4.2
	Juniata County -----	-	52	14	1.9	15.4	1.7	3.0	11.3	30.2	44.8	74.6	1.0	1.7	17.3
23	Apparel and other textile products -----	-	8	8	0.7	5.0	0.7	1.2	4.3	7.2	3.1	10.2	0.1	0.9	4.3

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
201	Lackawanna County -----	-	499	258	26.1	257.4	20.8	37.6	181.4	452.0	504.5	944.4	44.1	30.3	352.2
	Meat products-----	-	14	9	0.6	5.3	0.6	1.0	3.8	9.8	57.1	66.6	1.2	(NA)	(NA)
22	Textile mill products-----	-	12	9	1.4	11.1	1.2	2.2	8.9	11.8	17.0	29.0	0.2	2.0	18.4
228	Yarn and thread mills-----	-	7	5	0.6	5.1	0.6	1.2	4.4	3.8	6.9	10.8	(D)	(NA)	(NA)
23	Apparel and other textile products-----	E1	163	115	7.5	48.5	6.8	11.1	40.9	77.1	29.5	106.1	1.2	9.5	63.7
2311	Men's and boys' suits and coats-----	-	12	9	0.9	8.3	0.8	1.5	6.7	10.2	8.3	18.5	(D)	(NA)	(NA)
2327	Men's and boys' separate trousers-----	-	9	6	1.0	7.0	0.9	1.5	5.4	9.1	4.7	13.6	0.1	(NA)	(NA)
233	Women's and misses' outerwear-----	E2	108	77	3.9	23.2	3.6	5.7	20.2	38.3	9.7	47.7	(D)	5.0	31.8
24	Lumber and wood products--	-	27	9	0.6	5.9	0.4	0.8	4.1	12.0	18.5	30.6	(D)	(NA)	(NA)
27	Printing and publishing-----	-	53	12	1.8	21.2	1.3	2.6	13.9	37.5	14.5	51.2	2.0	2.2	29.7
275	Commercial printing-----	E1	32	9	0.6	6.1	0.4	0.8	4.2	12.9	7.7	20.0	1.3	0.8	13.2
3079	Miscellaneous plastics products-----	E1	15	7	0.8	9.7	0.6	1.3	7.0	16.8	37.0	53.4	2.1	(NA)	(NA)
34	Fabricated metal products---	-	39	18	3.0	35.4	2.3	4.2	23.7	70.4	56.7	126.0	5.0	3.8	39.7
346	Metal forgings and stampings-----	-	5	4	0.5	6.4	0.4	0.7	4.4	12.0	10.2	21.8	(D)	0.5	6.6
3469	Metal stampings, n.e.c.--	-	5	4	0.5	6.4	0.4	0.7	4.4	12.0	10.2	21.8	(D)	(NA)	(NA)
35	Machinery, except electrical--	E1	28	8	0.6	7.3	0.4	0.8	4.7	14.5	12.4	24.6	2.0	(NA)	(NA)
36	Electric and electronic equipment-----	-	19	13	3.2	37.0	2.9	5.3	29.1	86.0	93.6	175.9	(D)	3.4	71.4
37	Transportation equipment---	-	8	6	0.9	14.1	0.8	1.5	10.7	12.3	39.5	50.7	0.3	0.5	7.1
--	Administrative and auxiliary--	-	13	10	1.0	11.3	-	-	-	-	-	-	-	(NA)	(NA)
	Lancaster County (Coextensive with Lancaster, Pa., SMSA; see table 6.)														
	Lawrence County -----	-	169	68	9.7	130.5	7.3	14.0	90.0	285.6	300.0	583.3	23.7	10.8	172.4
32	Stone, clay, and glass products-----	-	24	10	2.3	28.2	1.7	3.1	19.4	60.0	40.6	101.5	2.3	2.5	43.6
34	Fabricated metal products---	-	33	17	2.1	33.7	1.7	3.4	25.2	71.3	67.1	138.0	7.9	1.7	35.0
35	Machinery, except electrical--	-	29	9	1.4	19.3	1.0	1.7	11.4	37.8	26.4	63.7	1.6	2.0	25.2
356	General industrial machinery-----	-	7	4	0.7	8.8	0.5	0.8	5.2	14.1	12.6	26.7	1.4	(NA)	(NA)
	Lebanon County -----	-	195	106	14.2	166.3	11.2	20.8	117.1	423.3	482.2	884.7	22.5	13.8	245.5
20	Food and kindred products--	-	27	10	1.3	12.2	1.0	1.8	8.1	30.6	77.4	107.7	2.0	1.4	18.2
201	Meat products-----	-	9	6	0.8	6.8	0.7	1.3	5.5	11.9	47.9	59.5	1.3	0.7	6.5
2016	Poultry dressing plants--	-	3	3	0.7	5.2	0.6	1.1	4.4	7.4	34.0	41.1	(D)	(NA)	(NA)
22	Textile mill products-----	-	9	7	0.6	6.2	0.5	1.0	5.0	8.5	9.0	17.9	(D)	1.0	11.4
23	Apparel and other textile products-----	-	39	32	2.7	18.5	2.5	4.3	15.9	30.3	27.3	57.8	0.7	3.2	22.7
232	Men's and boys' furnishings-----	-	6	6	1.0	7.9	0.9	1.7	8.8	14.6	17.4	32.6	0.3	0.8	6.6
2321	Men's and boys' shirts and nightwear-----	-	5	5	0.9	7.3	0.8	1.6	6.3	13.8	15.8	30.2	0.3	(NA)	(NA)
233	Women's and misses' outerwear-----	-	22	18	1.2	7.3	1.1	1.7	6.0	11.0	8.8	19.5	0.2	1.1	7.7
2331	Women's and misses' blouses and waists-----	-	10	9	0.7	4.1	0.6	0.9	3.6	5.1	0.9	6.0	(D)	(NA)	(NA)
27	Printing and publishing-----	-	19	8	0.6	8.5	0.4	0.8	5.1	15.9	7.4	23.1	0.7	0.5	6.6
31	Leather and leather products-----	-	6	5	1.1	9.0	1.0	1.8	6.8	16.1	16.9	33.4	0.2	1.2	11.6
33	Primary metal industries-----	-	8	4	2.0	32.7	1.5	2.8	23.8	70.2	111.6	170.0	6.9	3.5	45.1
34	Fabricated metal products---	-	16	12	2.6	39.7	2.0	3.6	28.1	90.0	86.1	166.8	5.4	1.0	29.4
35	Machinery, except electrical--	-	30	12	1.1	14.5	0.5	1.0	7.4	36.6	53.7	90.5	1.7	(NA)	(NA)
	Lehigh County -----	-	489	245	47.8	699.6	30.2	58.1	352.5	1 241.2	1 626.0	2 851.1	52.1	47.1	666.6
225	Knitting mills-----	E2	30	23	2.8	24.8	2.4	4.6	17.9	47.5	58.8	107.0	6.2	3.1	38.9
2257	Circular knit fabric mills--	E3	18	13	1.6	16.1	1.4	2.8	11.2	29.6	37.8	86.6	4.9	(NA)	(NA)
232	Men's and boys' furnishings-----	E1	14	8	0.9	7.0	0.8	1.5	5.9	8.6	4.1	13.4	0.2	1.6	14.4
233	Women's and misses' outerwear-----	E1	73	54	4.2	28.1	3.9	6.4	23.8	33.3	22.5	55.9	1.4	3.1	21.3
2331	Women's and misses' blouses and waists-----	-	41	36	2.8	19.3	2.6	4.5	16.3	22.6	20.0	42.7	1.2	(NA)	(NA)
33	Primary metal industries-----	-	11	6	0.7	7.4	0.6	1.0	5.9	13.9	17.1	31.5	1.7	0.6	7.9
332	Iron and steel foundries-----	-	4	3	0.5	5.0	0.4	0.6	3.9	9.2	12.6	22.5	(D)	(NA)	(NA)
3321	Gray iron foundries-----	-	4	3	0.5	5.0	0.4	0.6	3.9	9.2	12.6	22.5	(D)	(NA)	(NA)
344	Fabricated structural metal products-----	-	20	3	1.0	16.4	0.7	1.2	9.9	33.6	43.4	77.6	0.5	1.2	10.7
364	Electric lighting and wiring equipment-----	-	3	3	0.8	8.1	0.7	1.2	5.9	15.4	12.4	27.6	(D)	(NA)	(NA)
38	Instruments and related products-----	-	7	4	0.6	5.7	0.4	0.8	3.8	10.5	4.1	13.8	(D)	(NA)	(NA)
--	Administrative and auxiliary--	-	19	12	8.4	190.3	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Luzerne County-----	-	670	358	40.5	379.3	32.4	57.8	269.0	773.1	715.6	1 458.7	44.1	47.3	599.4
20	Food and kindred products --	E1	63	21	3.0	28.4	1.9	3.5	18.5	74.1	69.5	142.3	3.8	(NA)	(NA)
205	Bakery products -----	-	14	4	0.5	5.5	0.3	0.6	4.1	15.7	11.8	27.5	(D)	(NA)	(NA)
2051	Bread, cake, and related products -----	-	14	4	0.5	5.5	0.3	0.6	4.1	15.7	11.8	27.5	(D)	(NA)	(NA)
208	Beverages-----	E2	15	4	0.5	5.5	0.2	0.4	2.3	10.2	15.2	25.5	(D)	0.7	12.5
22	Textile mill products -----	-	26	20	2.4	20.2	2.0	3.8	15.5	45.6	82.7	126.9	3.5	4.0	44.8
225	Knitting mills -----	-	9	8	1.0	7.7	0.8	1.5	6.1	18.4	50.9	68.6	(D)	(NA)	(NA)
23	Apparel and other textile products -----	E2	222	169	12.1	79.5	11.2	18.3	67.2	120.8	59.2	182.4	1.7	14.9	119.7
2311	Men's and boys' suits and coats -----	-	9	6	1.0	8.7	0.9	1.8	7.9	12.3	3.9	16.3	(D)	(NA)	(NA)
233	Women's and misses' outerwear -----	E4	164	129	8.7	54.1	8.0	13.0	45.5	74.4	25.2	101.4	0.9	10.5	80.7
2331	Women's and misses' blouses and waists -----	-	12	10	0.6	3.0	0.6	0.9	2.8	4.0	0.3	4.3	(D)	(NA)	(NA)
2335	Women's and misses' dresses -----	E4	136	106	6.9	43.8	6.4	10.3	36.2	60.7	23.0	85.4	0.5	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c. -----	E2	13	10	0.9	5.7	0.8	1.5	5.0	7.6	1.7	9.4	(D)	(NA)	(NA)
236	Children's outerwear -----	E2	14	11	0.7	4.4	0.6	0.9	3.8	8.9	8.1	16.9	(Z)	1.2	10.7
24	Lumber and wood products --	E2	34	9	0.5	4.6	0.5	0.9	3.6	12.6	19.6	32.1	1.2	0.7	5.6
25	Furniture and fixtures -----	-	19	8	1.0	9.4	0.8	1.4	7.0	18.8	20.6	39.3	(D)	1.9	21.5
26	Paper and allied products ---	-	16	11	1.2	12.8	1.0	1.7	9.1	34.4	55.7	90.1	1.9	0.9	15.6
27	Printing and publishing -----	-	48	9	1.2	16.8	0.9	1.8	10.9	28.5	14.4	42.9	1.6	1.3	20.0
2711	Newspapers -----	-	9	3	0.6	8.3	0.3	0.6	4.2	12.2	3.4	15.5	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	E1	20	10	2.1	18.7	1.7	3.2	14.2	42.7	53.0	95.6	1.7	1.8	19.2
3142	House slippers -----	E1	4	3	0.8	5.5	0.7	1.2	4.2	7.7	7.3	14.9	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	30	11	2.5	30.4	2.0	3.9	23.3	76.6	50.0	127.1	5.6	(NA)	(NA)
33	Primary metal industries -----	-	12	6	0.7	10.0	0.6	1.1	7.3	13.6	27.9	42.0	(D)	0.8	13.1
335	Nonferrous rolling and drawing -----	-	3	3	0.5	6.7	0.4	0.7	4.8	7.7	20.3	28.7	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	40	17	2.4	32.1	1.8	3.4	20.7	98.7	72.3	140.6	4.4	1.9	37.1
344	Fabricated structural metal products -----	-	26	7	1.3	16.7	0.9	1.8	11.2	60.3	35.0	64.1	1.2	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	5	4	0.6	8.5	0.4	0.8	4.7	18.8	16.0	35.6	(D)	(NA)	(NA)
35	Machinery, except electrical --	-	48	20	2.2	27.7	1.7	3.2	18.9	40.9	55.5	98.2	4.0	2.1	43.8
356	General industrial machinery -----	-	9	6	1.3	17.2	1.0	2.0	12.1	21.6	34.9	57.8	2.9	(NA)	(NA)
36	Electric and electronic equipment -----	-	10	8	2.8	30.3	2.2	3.9	21.1	65.5	32.5	98.3	(D)	3.3	45.2
37	Transportation equipment ---	-	14	7	0.7	7.7	0.6	1.0	5.5	18.1	29.8	48.2	0.2	1.0	17.2
39	Miscellaneous manufacturing industries -----	-	21	7	1.3	12.3	1.0	1.8	7.6	27.5	28.6	53.3	0.9	(NA)	(NA)
-	Administrative and auxiliary --	-	13	9	1.3	14.7	-	-	-	-	-	-	-	(NA)	(NA)
	Lycoming County (Coextensive with Williamsport, Pa., SMSA; see table 6.)														
	McKean County-----	-	94	39	7.0	83.0	5.4	10.6	56.8	159.1	247.1	403.2	11.4	7.3	111.7
36	Electric and electronic equipment -----	-	5	5	1.4	17.0	1.2	2.4	12.9	31.3	26.1	56.8	(D)	1.9	29.2
	Mercer County -----	-	157	61	16.1	246.1	12.2	24.5	177.0	566.7	725.5	1 281.4	39.6	18.8	375.8
20	Food and kindred products --	E1	26	8	0.5	5.5	0.3	0.5	2.5	12.8	38.2	51.1	1.1	0.6	8.5
33	Primary metal industries -----	-	14	11	6.8	113.7	5.5	11.8	90.2	287.9	430.0	707.1	26.3	7.8	213.0
331	Blast furnace and basic steel products -----	-	7	6	4.8	81.8	3.9	8.6	66.0	227.8	361.8	578.9	(D)	6.0	180.5
34	Fabricated metal products ---	-	20	11	1.3	17.0	0.8	1.6	10.1	50.1	55.6	104.5	1.4	1.7	34.4
344	Fabricated structural metal products -----	-	8	6	0.6	8.4	0.4	0.7	4.4	27.5	28.2	56.1	0.8	0.6	13.9
	Mifflin County -----	-	56	25	6.2	79.0	5.1	9.0	59.9	132.9	224.9	355.0	9.8	7.1	86.5

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Monroe County -----	-	97	48	4.3	48.3	3.2	6.0	31.8	102.7	73.8	179.9	5.3	5.2	72.7
23	Apparel and other textile products -----	E1	16	14	0.8	5.6	0.7	1.2	4.5	7.4	1.2	8.6	0.3	0.7	4.5
233	Women's and misses' outerwear -----	E1	12	11	0.6	3.9	0.6	1.0	3.3	5.2	1.0	6.3	(D)	0.6	3.6
27	Printing and publishing -----	-	12	5	0.5	6.1	0.4	0.7	3.9	12.7	4.8	17.5	0.4	0.6	7.8
34	Fabricated metal products ---	-	11	5	0.7	9.9	0.5	0.8	5.4	22.0	11.1	32.6	1.6	0.9	15.0
36	Electric and electronic equipment -----	-	6	3	0.5	6.6	0.4	0.8	4.8	12.9	12.7	25.2	(D)	0.5	8.1
	Montgomery County -----	-	1 458	554	97.8	1 444.9	57.7	112.5	706.8	3 141.3	2 710.8	5 799.1	148.3	105.1	2 159.1
20	Food and kindred products --	-	74	30	5.3	73.5	3.4	6.7	40.3	216.4	421.1	635.9	11.4	5.4	140.3
201	Meat products -----	-	14	8	1.3	19.6	1.1	2.3	13.9	42.7	229.7	271.3	6.7	0.7	14.4
202	Dairy products -----	-	13	6	0.5	7.5	0.3	0.7	4.1	16.1	62.5	78.6	0.6	0.9	29.4
205	Bakery products -----	-	20	4	0.9	13.1	0.5	1.0	5.2	40.9	25.1	65.9	0.5	0.8	20.0
22	Textile mill products -----	-	36	17	1.7	15.1	1.5	2.6	11.1	28.7	44.5	72.6	0.8	2.3	30.2
225	Knitting mills -----	-	20	10	1.0	9.4	0.9	1.5	7.0	17.7	25.4	43.2	0.4	1.4	17.0
23	Apparel and other textile products -----	E1	72	44	4.2	32.4	3.7	6.3	24.9	71.8	65.9	135.7	1.2	3.9	38.5
2311	Men's and boys' suits and coats -----	-	13	11	1.2	11.2	1.0	1.8	8.6	24.7	22.8	47.1	0.1	(NA)	(NA)
233	Women's and misses' outerwear -----	E4	19	13	1.3	8.8	1.1	1.6	6.5	16.8	12.1	27.9	0.9	1.3	11.6
2335	Women's and misses' dresses -----	E3	13	7	0.6	4.2	0.5	0.7	2.8	8.7	4.9	12.7	(D)	(NA)	(NA)
25	Furniture and fixtures -----	-	27	13	2.1	24.5	1.6	3.2	18.3	58.4	57.4	114.7	4.6	2.0	31.1
26	Paper and allied products ---	-	30	16	2.1	27.0	1.5	3.1	17.7	53.7	77.5	129.8	4.0	2.6	40.3
265	Paperboard containers and boxes -----	-	15	8	1.1	14.1	0.8	1.6	9.2	25.3	41.7	66.3	2.4	1.4	19.4
2653	Corrugated and solid fiber boxes -----	-	6	3	0.5	6.6	0.3	0.7	4.2	10.2	13.4	24.0	(D)	(NA)	(NA)
27	Printing and publishing -----	-	178	36	4.0	44.8	2.7	4.9	27.1	100.5	41.1	140.8	4.8	3.6	50.3
275	Commercial printing -----	E1	107	16	1.4	16.7	1.1	2.0	11.6	33.5	18.8	51.9	1.6	1.3	21.7
2751	Commercial printing, letterpress -----	E1	56	5	0.7	7.4	0.6	1.0	5.4	14.1	8.9	23.1	(D)	(NA)	(NA)
2752	Commercial printing, lithographic -----	E1	47	11	0.8	9.2	0.6	1.1	6.2	19.2	9.9	28.6	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	56	25	8.1	147.6	4.9	9.8	79.1	856.5	417.1	1 266.7	30.6	7.6	507.3
283	Drugs -----	-	8	5	5.7	110.1	3.4	6.6	57.8	742.3	273.9	1 011.7	15.7	4.7	441.9
289	Miscellaneous chemical products -----	-	22	10	0.7	9.2	0.5	0.9	4.5	23.8	21.5	44.6	0.9	0.8	15.3
29	Petroleum and coal products -	-	10	4	0.6	11.5	0.2	0.4	2.3	17.5	24.4	41.9	1.3	0.6	16.1
30	Rubber and miscellaneous plastics products -----	-	66	30	8.0	118.4	6.5	12.7	89.6	275.1	331.3	587.5	11.4	7.6	226.6
32	Stone, clay, and glass products -----	-	78	33	3.9	52.9	3.1	6.2	37.2	103.9	91.9	195.4	3.7	5.3	96.0
325	Structural clay products ---	-	4	3	1.3	16.1	1.0	2.0	11.5	31.5	21.8	53.6	(D)	1.5	25.5
327	Concrete, gypsum, and plaster products -----	-	31	10	0.5	7.2	0.3	0.7	4.3	13.8	15.6	29.8	0.9	0.7	15.5
329	Miscellaneous nonmetallic mineral products -----	-	26	15	1.3	19.0	1.0	2.0	12.5	39.0	41.7	79.5	1.7	1.4	19.6
33	Primary metal industries ----	-	33	19	4.6	63.4	3.5	6.4	46.6	81.3	126.3	216.8	2.1	6.4	104.7
3317	Steel pipe and tubes -----	-	6	6	1.2	16.6	0.9	1.8	12.6	22.8	19.2	41.2	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	190	75	8.8	120.1	6.7	13.1	79.5	249.0	208.4	455.5	17.1	9.2	149.8
344	Fabricated structural metal products -----	E1	61	27	2.1	27.6	1.5	2.8	17.1	57.6	56.3	113.7	2.6	3.2	49.5
3441	Fabricated structural metal -----	-	17	9	0.8	10.3	0.5	1.0	6.5	21.6	26.9	48.9	1.2	(NA)	(NA)
3443	Fabricated plate work (boiler shops) -----	E1	15	9	0.8	10.6	0.5	1.0	6.1	24.3	19.9	43.9	1.0	(NA)	(NA)
345	Screw machine products, bolts, etc. -----	-	19	6	2.1	27.4	1.7	3.4	22.7	62.3	38.5	99.2	(D)	1.8	31.9
346	Metal forgings and stampings -----	-	20	10	0.6	9.2	0.5	1.1	6.6	19.6	28.4	47.6	0.6	0.7	9.5
349	Miscellaneous fabricated metal products -----	-	46	20	2.9	41.5	2.2	4.0	23.6	76.7	55.6	132.1	3.6	2.7	43.4
3498	Fabricated pipe and fittings -----	-	11	7	0.6	9.0	0.5	0.9	5.6	17.9	10.9	28.2	0.7	(NA)	(NA)

See footnotes at end of table.

Table 7. **Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.**

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies.
For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expendi- tures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Montgomery County—Con.														
35	Machinery, except electrical --	-	264	73	10.6	159.7	6.3	13.0	86.6	320.5	233.3	544.2	16.3	9.5	178.0
353	Construction and related machinery -----	-	7	5	0.9	15.1	0.4	0.7	4.7	38.2	26.9	63.3	0.4	1.0	16.0
354	Metalworking machinery ---	-	47	8	1.2	20.8	0.9	1.8	14.6	40.9	22.1	61.8	2.3	1.2	21.3
3544	Special dies, tools, jigs, and fixtures -----	-	25	5	0.6	10.8	0.5	1.0	8.8	19.1	9.0	27.4	1.2	(NA)	(NA)
355	Special industry machinery -	-	42	16	1.8	28.2	1.0	2.1	13.2	48.7	56.2	103.2	1.9	1.8	35.2
3559	Special industry machinery, n.e.c. -----	-	24	10	1.2	18.5	0.6	1.3	8.0	33.6	42.5	73.0	1.5	(NA)	(NA)
356	General industrial machinery -----	-	44	24	3.1	49.0	2.2	4.7	32.9	104.3	57.8	160.1	6.0	2.4	45.1
3566	Speed changers, drives, and gears -----	-	6	6	1.5	24.8	1.1	2.4	17.4	55.7	26.0	82.0	(D)	(NA)	(NA)
357	Office and computing machines -----	-	10	7	1.9	24.7	0.6	1.3	7.6	44.7	33.7	75.7	(D)	1.2	28.4
3573	Electronic computing equipment -----	-	10	7	1.9	24.7	0.6	1.3	7.6	44.7	33.7	75.7	(D)	(NA)	(NA)
358	Refrigeration and service machinery -----	-	8	4	0.6	7.2	0.4	0.7	3.6	16.1	20.3	36.2	(D)	0.8	14.0
36	Electric and electronic equipment -----	-	98	39	6.7	84.1	4.4	8.5	46.5	181.0	286.7	464.0	11.9	9.8	168.0
362	Electrical industrial apparatus -----	-	12	5	0.6	8.0	0.4	0.9	4.5	18.8	11.5	27.8	1.1	(NA)	(NA)
366	Communication equipment -	-	19	12	2.0	25.6	1.0	1.8	10.2	54.3	41.3	92.8	(D)	4.8	92.8
369	Miscellaneous electrical equipment and supplies --	-	12	6	0.7	6.4	0.6	1.1	3.6	13.3	15.5	28.0	0.6	(NA)	(NA)
37	Transportation equipment ---	-	19	11	4.9	102.3	2.1	4.3	32.3	161.0	115.3	275.9	14.6	8.2	151.7
38	Instruments and related products -----	-	73	28	9.7	150.9	4.6	9.1	58.5	334.4	129.2	451.7	11.4	9.0	175.7
382	Measuring and controlling devices -----	-	33	16	7.8	127.3	3.4	6.8	45.8	279.9	99.3	369.8	7.8	7.7	152.1
3823	Process control instruments -----	-	11	7	6.9	116.0	2.9	5.8	40.4	253.7	85.5	330.9	(D)	(NA)	(NA)
384	Medical instruments and supplies -----	-	20	5	0.7	8.6	0.4	0.7	4.7	19.5	12.4	30.5	0.9	(NA)	(NA)
-	Administrative and auxiliary --	-	64	41	11.1	202.1	-	-	-	-	-	-	-	(NA)	(NA)
-	Montour County -----	-	17	10	2.3	31.2	1.8	3.7	23.1	147.5	81.7	231.0	5.1	2.8	53.2
-	Northampton County -----	-	427	247	39.3	497.0	30.8	54.9	349.7	936.7	817.0	1 735.9	65.2	41.9	701.8
20	Food and kindred products --	-	27	5	0.8	9.6	0.6	1.2	5.4	23.7	47.9	72.0	1.7	0.8	16.2
22	Textile mill products -----	-	18	15	1.4	13.3	1.2	2.4	10.4	37.4	57.4	94.3	(D)	1.7	32.9
23	Apparel and other textile products -----	-	159	131	11.7	77.5	10.8	17.6	65.2	129.8	79.8	207.4	2.3	12.0	89.9
233	Women's and misses' outerwear -----	-	131	109	7.9	50.3	7.4	12.1	43.8	81.0	25.2	106.5	1.4	7.5	47.3
2331	Women's and misses' blouses and waists -----	-	93	80	5.3	33.7	5.1	8.4	30.1	43.7	5.7	49.8	0.8	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c. -----	-	18	15	1.4	9.1	1.3	2.1	7.8	13.4	7.1	20.7	0.2	(NA)	(NA)
27	Printing and publishing -----	E3	36	9	1.6	21.1	1.2	2.2	14.9	36.5	17.3	53.7	1.0	1.7	25.2
275	Commercial printing -----	E1	24	6	1.1	15.0	0.9	1.6	11.9	24.4	10.6	34.9	0.7	1.3	17.5
2752	Commercial printing, lithographic -----	E1	17	5	0.9	13.7	0.8	1.5	10.6	21.8	9.2	30.9	0.7	(NA)	(NA)
28	Chemicals and allied products -----	-	14	4	0.6	8.4	0.3	0.6	4.4	31.8	18.7	49.7	(D)	0.6	14.9
281	Industrial inorganic chemicals -----	-	5	3	0.5	7.4	0.3	0.5	3.8	28.8	14.9	43.0	3.4	0.5	13.7
30	Rubber and miscellaneous plastics products -----	-	11	8	0.8	9.0	0.6	1.1	6.1	30.4	27.5	58.7	2.5	0.9	17.9
32	Stone, clay, and glass products -----	-	33	16	2.1	30.4	1.7	3.2	23.5	63.1	54.7	118.8	2.1	2.3	63.4
34	Fabricated metal products ---	-	33	16	2.1	26.7	1.6	3.0	19.3	46.3	52.3	99.2	5.5	1.7	33.4
35	Machinery, except electrical --	-	24	9	1.4	20.2	0.9	1.8	10.7	42.1	27.1	68.9	(D)	1.1	20.9
36	Electric and electronic equipment -----	-	5	4	0.9	12.2	0.7	1.4	8.9	26.4	30.0	54.5	(D)	0.8	14.4
-	Administrative and auxiliary --	-	13	7	1.0	15.8	-	-	-	-	-	-	-	(NA)	(NA)
-	Northumberland County -----	-	158	87	13.2	127.9	10.9	19.4	95.6	264.2	408.6	669.6	9.6	14.3	175.8
20	Food and kindred products --	-	33	13	2.8	33.3	2.1	4.3	22.1	86.1	166.1	251.7	2.4	3.0	54.8
201	Meat products -----	-	8	5	0.8	7.1	0.5	1.1	4.2	9.5	56.5	65.6	0.1	0.8	11.4
23	Apparel and other textile products -----	-	29	25	2.8	16.3	2.7	3.9	14.6	24.2	4.5	28.5	0.2	3.8	26.1
233	Women's and misses' outerwear -----	-	19	15	1.6	8.8	1.5	2.1	7.6	10.8	1.3	12.1	0.1	2.4	13.8
2335	Women's and misses' dresses -----	E1	15	11	1.0	5.4	0.9	1.2	4.4	6.2	1.2	7.3	(D)	(NA)	(NA)
24	Lumber and wood products --	-	9	5	0.6	5.7	0.5	0.9	4.4	9.8	17.7	27.1	0.2	1.1	14.5
243	Millwork, plywood, and structural members -----	-	4	4	0.6	5.4	0.5	0.8	4.1	9.3	17.2	26.2	0.1	0.7	7.8
39	Miscellaneous manufacturing industries -----	E1	7	3	0.5	3.9	0.4	0.8	3.0	13.3	10.1	23.3	0.4	0.6	6.8

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
	Perry County -----	-	38	14	1.0	6.7	0.9	1.5	5.4	12.5	6.4	18.7	0.5	0.8	6.5
	Philadelphia County (See table 8.)														
	Potter County -----	-	44	12	0.9	7.9	0.8	1.5	6.1	16.4	12.8	31.0	2.0	0.8	8.1
	Schuylkill County -----	-	294	173	20.3	167.5	16.9	30.6	124.8	342.7	391.3	749.5	16.7	22.9	249.7
22	Textile mill products -----	-	22	17	2.7	22.7	2.3	4.5	17.9	51.8	81.4	132.7	3.0	3.6	36.8
23	Apparel and other textile products -----	-	107	89	9.5	58.3	8.6	14.8	47.9	95.2	48.1	140.9	1.9	0.6	59.4
232	Men's and boys' furnishings -----	-	17	16	2.9	19.4	2.5	4.5	15.6	38.1	22.7	58.5	0.6	2.6	19.8
2321	Men's and boys' shirts and nightwear -----	-	12	12	2.4	16.0	2.1	3.8	12.8	30.5	19.8	48.0	0.4	(NA)	(NA)
233	Women's and misses' outerwear -----	E1	72	60	5.1	28.9	4.7	8.1	24.3	42.4	17.7	60.3	1.1	5.5	29.3
2331	Women's and misses' blouses and waists -----	-	22	21	1.8	10.5	1.7	2.6	8.7	17.4	12.1	29.7	0.8	(NA)	(NA)
2335	Women's and misses' dresses -----	E2	38	29	2.3	12.7	2.2	4.0	10.9	17.4	5.2	22.6	0.2	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c. -----	-	7	7	0.8	4.1	0.7	1.2	3.8	5.6	0.3	5.9	0.1	(NA)	(NA)
234	Women's and children's undergarments -----	-	4	3	0.5	2.9	0.4	0.7	2.5	4.2	1.7	6.1	0.1	(NA)	(NA)
2341	Women's and children's underwear -----	-	4	3	0.5	2.9	0.4	0.7	2.5	4.2	1.7	6.1	0.1	(NA)	(NA)
236	Children's outerwear -----	E1	8	6	0.6	3.7	0.5	0.9	3.0	6.1	4.8	10.3	(D)	(NA)	(NA)
24	Lumber and wood products --	-	18	6	0.6	5.3	0.5	0.9	3.6	10.5	20.8	30.7	0.4	0.6	6.0
28	Chemicals and allied products -----	-	5	3	1.1	13.4	0.8	1.5	8.4	36.6	19.1	55.4	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	6	5	1.0	12.1	0.7	1.4	8.2	29.7	39.2	68.8	(D)	0.9	18.4
3079	Miscellaneous plastics products -----	-	6	5	1.0	12.1	0.7	1.4	8.2	29.7	39.2	68.8	(D)	(NA)	(NA)
31	Leather and leather products -----	-	5	5	0.7	3.6	0.5	0.8	2.8	5.8	3.4	9.3	(Z)	0.9	5.0
314	Footwear, except rubber --	-	5	5	0.7	3.6	0.5	0.8	2.8	5.8	3.4	9.3	(Z)	0.9	5.0
33	Primary metal industries -----	-	8	6	0.8	9.1	0.6	1.0	7.0	16.1	66.1	104.1	2.2	1.8	35.5
34	Fabricated metal products ---	-	27	12	1.2	14.6	0.9	1.8	10.0	38.0	38.6	76.6	1.5	0.6	13.0
	Snyder County -----	-	66	37	3.4	30.3	2.9	5.3	23.1	52.4	64.0	115.7	2.5	3.2	38.8
23	Apparel and other textile products -----	-	15	11	0.7	3.7	0.7	1.1	3.2	5.0	0.8	5.7	0.1	0.7	4.1
24	Lumber and wood products --	E3	11	4	0.8	10.6	0.7	1.3	8.2	19.1	19.8	38.2	0.5	0.9	14.1
	Somerset County -----	-	124	40	4.2	33.7	3.7	6.8	26.5	77.3	94.0	169.7	3.5	3.9	40.2
23	Apparel and other textile products -----	E4	11	11	1.3	7.6	1.2	2.0	6.8	12.3	5.6	17.2	(D)	1.4	8.6
	Susquehanna County -----	-	63	21	2.2	19.3	1.9	3.6	14.4	34.8	28.2	62.1	(D)	2.1	21.6
23	Apparel and other textile products -----	E1	12	8	0.5	3.0	0.5	0.7	2.6	3.8	2.4	6.2	(D)	0.7	3.6
	Tioga County -----	-	48	13	2.3	25.3	1.9	3.7	19.2	61.5	86.4	146.4	2.3	2.5	48.0
34	Fabricated metal products ---	-	6	4	0.8	9.5	0.7	1.4	7.7	22.6	24.3	45.2	(D)	0.7	15.9
	Union County -----	-	35	16	2.8	27.7	2.4	4.7	20.9	66.1	76.6	141.9	(D)	2.7	40.0
	Venango County -----	-	92	37	6.3	123.0	5.4	10.5	81.2	239.3	424.0	662.5	19.8	7.2	132.9
33	Primary metal industries -----	-	8	4	0.8	14.0	0.6	1.3	10.0	21.5	36.1	58.1	(D)	0.8	17.1
331	Blast furnace and basic steel products -----	-	3	3	0.8	13.4	0.6	1.2	9.5	20.5	34.8	55.8	(D)	0.7	16.5
35	Machinery, except electrical --	-	20	7	4.6	66.8	2.7	5.3	43.3	144.4	135.5	278.1	6.5	3.8	69.3
353	Construction and related machinery -----	-	4	4	4.3	62.8	2.5	4.9	40.2	138.0	132.6	268.9	6.2	(NA)	(NA)
	Warren County -----	-	101	39	5.9	77.4	4.2	8.4	48.0	179.5	416.3	587.7	13.3	5.5	99.2
30	Rubber and miscellaneous plastics products -----	-	5	4	0.7	7.1	0.6	1.3	5.1	15.7	12.3	28.1	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	13	8	1.1	16.0	0.8	1.5	9.9	30.6	31.5	60.9	1.5	0.8	14.3
344	Fabricated structural metal products -----	-	5	4	0.9	12.9	0.6	1.2	8.2	22.7	24.4	45.9	0.9	(NA)	(NA)
36	Electric and electronic equipment -----	-	9	5	0.5	3.6	0.4	0.7	2.7	8.3	9.7	18.0	0.1	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Washington County -----	-	243	109	19.0	275.8	14.6	28.3	202.1	592.1	944.8	1 526.2	27.8	19.0	365.8
20	Food and kindred products --	E1	25	11	0.5	5.9	0.3	0.6	3.1	16.3	30.9	47.2	0.8	0.5	7.0
23	Apparel and other textile products -----	E3	8	4	0.6	4.1	0.6	1.0	3.4	5.3	1.4	6.8	(D)	(NA)	(NA)
233	Women's and misses' outerwear -----	E3	3	3	0.5	3.6	0.5	0.9	3.1	4.7	0.3	5.0	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	21	9	3.0	38.9	2.8	5.1	33.4	82.4	48.8	134.2	4.5	3.1	61.4
322	Glass and glassware, pressed or blown -----	-	4	4	2.8	35.5	2.5	4.7	31.2	76.0	42.6	121.6	(D)	(NA)	(NA)
33	Primary metal industries -----	-	20	15	5.6	98.7	4.7	8.7	81.1	178.9	472.0	644.3	8.3	5.2	93.8
331	Blast furnace and basic steel products -----	-	9	8	4.4	82.3	3.7	6.8	67.4	139.8	388.4	522.6	(D)	4.4	81.1
34	Fabricated metal products ---	-	26	16	1.5	19.7	1.1	2.2	12.9	41.4	41.0	82.3	1.8	1.2	19.1
344	Fabricated structural metal products -----	-	11	7	0.7	9.2	0.5	1.0	5.4	20.1	17.0	36.9	0.4	0.7	10.7
35	Machinery, except electrical --	-	46	20	2.0	27.5	1.4	2.7	17.1	64.6	54.5	106.5	2.4	1.5	33.8
353	Construction and related machinery -----	-	6	4	1.1	14.6	0.6	1.2	8.4	31.2	36.0	62.3	(D)	0.8	23.2
3532	Mining machinery -----	-	6	4	1.1	14.6	0.6	1.2	8.4	31.2	36.0	62.3	(D)	(NA)	(NA)
-	Administrative and auxiliary --	-	10	4	0.5	8.1	-	-	-	-	-	-	-	(NA)	(NA)
	Wayne County -----	-	71	20	2.4	20.1	2.1	3.7	14.9	51.9	73.4	123.1	3.7	2.3	41.6
23	Apparel and other textile products -----	-	12	8	1.3	7.8	1.1	1.9	6.4	18.3	20.4	37.1	0.2	(NA)	(NA)
234	Women's and children's undergarments -----	-	3	3	0.9	5.9	0.8	1.4	4.7	14.8	18.5	31.6	0.1	(NA)	(NA)
2341	Women's and children's underwear -----	-	3	3	0.9	5.9	0.8	1.4	4.7	14.8	18.5	31.6	0.1	(NA)	(NA)
	Westmoreland County -----	-	497	185	34.7	503.8	24.3	46.4	325.4	942.0	874.9	1 809.4	165.8	37.4	661.4
20	Food and kindred products --	E1	37	10	0.7	8.8	0.4	0.8	4.9	21.9	38.4	60.3	1.2	1.4	26.3
23	Apparel and other textile products -----	-	15	8	1.1	7.3	1.0	1.8	6.0	10.2	6.6	16.8	0.3	1.1	6.1
26	Paper and allied products ---	-	7	6	0.7	8.3	0.6	1.1	5.1	15.7	22.6	37.9	0.4	(NA)	(NA)
27	Printing and publishing -----	-	40	12	1.2	12.9	0.7	1.0	6.3	24.3	13.9	38.3	1.5	1.2	16.4
28	Chemicals and allied products -----	-	7	4	0.5	5.3	0.2	0.4	2.5	11.6	7.8	18.8	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	20	10	1.4	18.4	1.1	2.2	13.8	32.5	33.0	67.8	2.1	0.7	9.8
32	Stone, clay, and glass products -----	-	45	26	4.0	49.0	3.3	6.6	39.8	93.1	63.1	154.4	6.3	4.2	64.6
322	Glass and glassware, pressed or blown -----	-	7	5	1.6	16.6	1.4	2.8	14.4	33.9	19.1	51.7	(D)	1.8	24.5
3229	Pressed and blown glass, n.e.c. -----	-	7	5	1.6	16.6	1.4	2.8	14.4	33.9	19.1	51.7	(D)	(NA)	(NA)
326	Pottery and related products -----	E1	3	3	0.8	10.5	0.6	1.2	7.9	16.2	6.6	23.3	(D)	(NA)	(NA)
33	Primary metal industries -----	-	39	26	11.0	187.8	8.4	16.3	143.7	350.1	371.4	713.7	32.6	11.6	257.5
331	Blast furnace and basic steel products -----	-	16	10	7.4	135.3	5.6	10.7	104.8	263.1	295.7	550.9	23.2	8.5	211.5
332	Iron and steel foundries -----	-	13	12	2.8	42.1	2.2	4.4	30.9	68.4	51.5	119.8	(D)	2.3	30.6
3321	Gray iron foundries -----	-	9	8	1.1	17.6	0.9	1.8	12.6	37.0	27.6	63.9	5.3	(NA)	(NA)
3325	Steel foundries, n.e.c. -----	-	4	4	1.7	24.5	1.3	2.6	18.4	31.4	23.9	55.9	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	62	20	2.2	28.2	1.6	3.3	19.8	49.0	57.1	105.3	3.5	2.7	40.9
344	Fabricated structural metal products -----	-	27	10	0.8	9.5	0.5	1.1	5.9	14.7	18.1	32.9	1.6	0.6	8.0
35	Machinery, except electrical --	-	119	36	6.6	101.5	3.8	7.6	52.8	257.1	171.8	431.0	9.0	5.4	107.3
36	Electric and electronic equipment -----	-	26	13	2.3	28.7	1.7	3.0	17.2	43.3	59.1	104.6	2.5	3.7	57.5
364	Electric lighting and wiring equipment -----	-	8	5	0.7	6.3	0.5	0.8	3.6	9.7	26.8	37.6	(D)	0.5	7.2
	York County -----	-	605	285	52.2	655.9	39.7	77.4	428.9	1 364.9	1 378.9	2 688.9	79.5	50.0	772.9
20	Food and kindred products --	-	72	28	3.1	31.3	2.1	4.0	17.7	76.1	150.8	226.9	4.4	3.5	53.0
2052	Cookies and crackers ---	-	7	4	0.5	5.1	0.4	0.6	2.8	7.9	9.4	17.3	1.5	(NA)	(NA)
21	Tobacco products -----	E2	10	4	0.5	3.3	0.4	0.7	2.5	7.5	7.3	12.5	0.1	(NA)	(NA)
22	Textile mill products -----	E4	17	12	3.5	29.0	3.2	6.2	24.2	61.4	49.8	110.2	1.4	(NA)	(NA)
2221	Weaving mills, manmade fiber and silk -----	-	4	4	0.5	4.8	0.4	0.9	4.3	6.8	8.8	15.7	0.2	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977												1972	
			E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	York County—Con.															
23	Apparel and other textile products -----	-	43	32	3.6	22.2	3.3	5.5	18.8	32.6	22.2	53.1	0.6	4.7	29.5	
233	Women's and misses' outerwear -----	-	20	19	1.8	10.8	1.7	2.6	9.8	13.1	1.3	14.3	(D)	1.8	10.3	
2361	Children's dresses and blouses -----	-	6	5	0.6	4.3	0.6	1.0	3.1	5.6	4.2	10.0	0.1	(NA)	(NA)	
24	Lumber and wood products --	-	41	14	0.9	9.1	0.7	1.5	6.8	18.1	18.2	36.4	0.8	1.4	14.1	
25	Furniture and fixtures -----	-	28	13	2.0	23.9	1.6	3.2	18.0	48.3	34.2	78.5	1.9	(NA)	(NA)	
27	Printing and publishing -----	-	57	22	3.4	40.5	2.7	5.2	30.8	76.6	53.4	130.3	4.6	(NA)	(NA)	
275	Commercial printing -----	-	34	9	1.3	12.8	1.0	1.9	8.9	18.8	12.2	30.8	(D)	0.6	8.6	
2751	Commercial printing, letterpress -----	-	16	4	0.5	5.9	0.3	0.6	3.4	9.7	6.4	16.0	(D)	(NA)	(NA)	
30	Rubber and miscellaneous plastics products -----	-	15	4	0.7	7.4	0.6	1.1	5.2	11.7	12.0	23.4	0.4	0.5	5.5	
31	Leather and leather products -----	-	10	5	1.2	9.0	1.2	2.3	8.2	15.7	25.0	40.5	(D)	1.2	23.2	
--	Administrative and auxiliary --	-	12	7	1.1	16.5	-	-	-	-	-	-	-	(NA)	(NA)	

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

² Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Abington twp-----	-	44	9	0.5	6.9	0.3	0.5	2.6	9.9	7.7	17.5	0.4	(D)	(D)
	Allentown -----	-	260	128	25.1	366.4	18.6	36.5	237.5	800.2	1 029.1	1 823.6	32.8	29.1	438.3
20	Food and kindred products --	-	18	5	1.3	19.0	0.9	1.9	13.0	38.2	162.6	199.3	1.5	2.1	26.3
22	Textile mill products -----	E1	34	25	2.6	24.1	2.2	4.2	17.2	50.2	55.4	106.4	6.0	3.2	45.7
225	Knitting mills -----	E1	24	19	2.2	20.7	1.9	3.6	14.5	41.4	49.5	91.7	5.6	(NA)	(NA)
23	Apparel and other textile products -----	-	78	51	4.9	37.5	4.2	7.2	28.5	55.2	52.2	107.9	1.5	5.9	53.5
233	Women's and misses' outerwear -----	-	45	33	2.3	15.7	2.1	3.4	13.1	16.7	16.5	32.9	1.0	(NA)	(NA)
2331	Women's and misses' blouses and waists ----	-	25	21	1.5	10.4	1.3	2.2	8.5	10.5	15.4	25.6	0.9	(NA)	(NA)
27	Printing and publishing -----	-	30	7	1.0	13.0	0.5	0.9	5.7	25.4	13.1	38.4	0.6	(NA)	(NA)
34	Fabricated metal products ---	-	18	6	1.5	22.7	1.1	2.0	14.9	44.3	62.9	109.8	1.5	(NA)	(NA)
35	Machinery, except electrical --	-	18	6	0.8	11.4	0.5	1.0	6.8	40.7	42.0	87.0	1.2	(NA)	(NA)
--	Administrative and auxiliary --	-	10	5	1.1	28.8	-	-	-	-	-	-	-	(NA)	(NA)
	Altoona -----	-	58	27	6.1	82.2	4.7	8.7	43.1	165.8	130.8	293.5	8.9	7.7	107.8
20	Food and kindred products --	-	14	10	1.0	10.4	0.6	1.2	5.9	28.6	28.6	56.8	2.2	1.0	13.4

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
2331	Ambler -----	-	22	8	0.6	8.0	0.4	0.8	4.6	13.1	14.7	27.9	0.5	0.7	10.6
	Archbald -----	-	16	9	1.9	24.1	1.7	3.1	20.0	32.8	43.2	73.5	(D)	2.0	21.8
	Ashland -----	-	10	6	0.9	8.4	0.7	1.4	5.9	15.9	15.5	28.9	(D)	0.7	8.0
	Aston twp -----	-	19	9	0.8	10.7	0.3	0.6	3.0	43.2	59.4	91.5	1.0	(D)	(D)
	Avoca -----	-	9	6	0.5	3.0	0.4	0.7	2.5	7.4	7.7	14.9	(D)	0.5	2.9
	Baldwin -----	-	9	2	0.6	11.6	0.1	0.2	1.4	7.9	3.6	11.4	0.3	(D)	(D)
	Bangor -----	-	37	20	1.8	16.8	1.5	2.7	13.2	41.9	48.9	89.1	1.0	1.7	32.0
	Women's and misses' blouses and waists -----	-	14	11	0.5	2.7	0.4	0.7	2.4	3.5	0.3	3.8	0.1	(NA)	(NA)
	Beaver Falls -----	-	26	9	6.4	114.0	4.9	9.8	86.0	121.9	268.9	377.4	(D)	6.1	103.2
	Bellefonte -----	-	16	8	2.1	27.6	1.7	3.7	22.2	56.1	66.4	120.8	2.4	1.8	34.3
34	Bensalem -----	-	172	62	5.5	79.5	3.2	6.3	33.3	136.7	161.0	297.1	5.8	3.6	68.7
	Fabricated metal products ---	E3	30	16	1.5	18.7	1.1	2.1	11.5	37.1	40.8	76.3	1.6	1.2	19.5
35	Machinery, except electrical --	-	41	13	0.8	10.1	0.5	1.0	5.4	19.1	12.8	31.9	0.7	0.5	9.8
	Berwick -----	-	46	22	4.4	45.0	3.5	6.4	31.9	101.3	119.8	216.2	3.8	5.6	78.6
	Bethel Park -----	-	43	7	0.5	6.3	0.4	0.8	4.3	11.2	11.6	22.9	0.7	(NA)	(NA)
	Bethlehem -----	-	97	56	23.0	390.2	13.6	24.3	197.1	538.8	492.0	1 017.4	(D)	23.1	377.6
20	Food and kindred products --	-	8	5	1.2	15.8	0.6	1.2	6.2	35.8	57.8	92.5	0.9	(NA)	(NA)
233	Women's and misses' outerwear -----	-	15	13	1.0	5.1	0.9	1.5	4.5	6.5	0.7	7.2	0.1	(NA)	(NA)
2331	Women's and misses' blouses and waists -----	-	8	8	0.5	2.8	0.5	0.8	2.6	3.3	0.3	3.6	0.1	(NA)	(NA)
34	Fabricated metal products ---	-	9	3	0.8	10.0	0.6	1.1	7.0	16.8	17.7	37.5	0.3	1.0	14.0
	Birdeboro -----	-	19	7	1.1	13.1	0.9	1.6	8.4	24.9	37.1	62.5	1.7	1.0	13.1
	Blairsville -----	-	23	6	1.2	16.2	1.0	2.1	12.1	46.9	56.1	101.9	(D)	0.8	17.7
22	Bloomsburg -----	-	35	17	2.1	20.1	1.7	3.7	14.3	35.5	51.2	87.0	1.1	4.0	40.3
	Textile mill products -----	-	8	6	1.3	11.7	1.1	2.5	9.1	16.7	32.7	49.7	0.7	(NA)	(NA)
34	Boyetown -----	-	44	18	3.2	34.2	2.6	4.9	26.4	62.5	55.9	118.5	2.4	3.4	45.5
	Fabricated metal products ---	-	11	5	0.6	7.1	0.5	0.9	5.6	14.2	14.2	27.8	0.4	0.5	9.5
	Bridgeport -----	-	35	11	0.7	8.0	0.6	1.1	5.6	14.3	10.7	25.1	0.7	1.8	27.8
	Bridgeville -----	-	20	7	1.4	24.3	1.1	1.9	17.8	30.4	74.8	104.1	(D)	0.5	11.6
	Bristol -----	-	41	18	2.3	29.2	1.7	3.3	18.6	108.3	119.5	226.8	3.1	3.4	79.6
	Bristol twp -----	-	79	34	4.4	54.4	3.1	6.0	32.6	145.0	172.1	316.7	18.3	3.3	64.4
28	Paper and allied products ---	-	9	6	1.0	9.5	0.8	1.4	6.3	20.9	34.3	54.3	1.7	(NA)	(NA)
27	Printing and publishing -----	-	11	8	1.1	10.0	0.7	1.1	5.9	21.4	7.2	28.6	(D)	(NA)	(NA)
	Brookville -----	-	27	9	0.9	8.8	0.8	1.4	6.9	22.5	21.2	43.7	1.8	0.5	7.8
	Canonsburg -----	-	34	14	3.2	43.9	2.2	5.0	31.3	93.0	71.5	165.9	2.4	4.3	68.3
23	Carbondale -----	-	31	24	1.8	15.8	1.4	2.4	10.9	32.1	40.9	73.0	(D)	1.5	22.1
	Apparel and other textile products -----	E2	13	12	0.5	2.3	0.4	0.6	2.0	3.3	0.7	4.0	(Z)	0.5	3.0
367	Carlisle -----	-	40	20	6.7	77.9	5.1	10.4	57.0	181.9	144.3	325.7	7.5	6.3	93.3
	Electronic components and accessories -----	-	7	6	1.4	14.1	1.1	2.1	9.8	36.2	17.6	54.6	1.3	(NA)	(NA)
	Catawauqua -----	-	12	7	0.6	7.1	0.5	0.9	5.3	13.7	12.1	25.5	0.3	1.5	20.2
	Chambersburg -----	-	48	23	4.9	48.6	4.1	6.9	35.9	120.2	115.1	233.9	4.6	5.2	81.3
	Cheltenham twp -----	-	46	6	0.5	5.4	0.4	0.7	3.6	10.5	10.4	20.8	(D)	0.5	8.5
	Chester -----	-	57	30	9.7	145.9	7.1	12.9	101.6	341.1	340.4	587.2	21.6	4.7	120.3
34	Fabricated metal products ---	-	14	8	0.9	11.1	0.7	1.4	7.8	20.6	19.6	39.2	1.0	0.7	8.9
	Clearfield -----	-	28	13	1.9	19.4	1.6	3.0	14.9	36.0	21.2	56.6	1.8	1.6	14.9
	Clifton Heights -----	-	25	8	1.1	10.6	0.9	1.7	7.1	21.0	13.8	34.2	0.6	1.2	13.8
	Coatesville -----	-	36	14	4.8	90.7	2.9	5.7	50.4	165.2	138.3	305.0	(D)	(D)	(D)
	Collegeville -----	-	17	6	0.9	10.9	0.7	1.3	7.0	21.8	17.4	38.4	1.3	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies.
For explanation of terms, see appendix B]

SIC code	Place and industry		1977											1972		
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)	
			E ¹	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)							Wages (million dollars)
23	Columbia -----	-		39	19	2.7	27.5	2.3	4.2	21.4	49.2	82.7	129.9	4.7	2.9	34.9
	Apparel and other textile products -----	E2		9	8	0.7	4.2	0.6	1.1	3.6	9.6	13.2	22.6	0.2	0.7	6.4
	Connellsville -----	-		19	8	0.6	5.6	0.5	0.8	3.9	9.4	6.1	15.0	0.9	0.8	6.0
	Conshohocken -----	-		44	19	2.9	38.7	2.0	3.9	24.6	112.5	191.5	294.4	4.0	3.8	101.0
34	Corry -----	-		25	14	2.6	32.9	2.0	4.0	22.7	76.8	62.2	131.4	6.2	2.3	36.5
	Fabricated metal products ---	-		5	4	0.8	12.2	0.6	1.2	8.5	23.4	16.5	39.7	(D)	0.8	15.6
	Curwensville -----	-		11	5	1.4	14.4	1.1	2.1	10.3	11.9	105.1	117.0	1.1	1.4	25.8
	Dallastown -----	-		13	7	0.6	6.1	0.5	0.9	4.4	8.9	6.3	15.9	0.3	(NA)	(NA)
23	Derry -----	-		9	4	0.7	9.0	0.5	1.0	6.5	12.9	8.1	21.6	(D)	(D)	(D)
	Dickson City -----	-		24	11	0.8	5.4	0.7	1.0	4.1	7.7	4.9	12.6	(D)	0.7	4.9
	Apparel and other textile products -----	-		8	7	0.5	3.0	0.5	0.7	2.5	3.8	0.7	4.5	(Z)	0.5	2.4
	Donora -----	-		13	6	0.5	5.6	0.4	0.7	3.7	19.3	24.9	36.6	1.1	0.5	6.4
34	Downingtown -----	-		31	12	3.6	49.7	2.7	5.5	33.8	98.8	152.1	250.5	4.9	3.3	58.4
	Doylestown -----	-		44	11	1.6	17.0	1.2	2.6	11.6	33.6	30.0	83.2	1.8	1.7	19.6
	Du Bois -----	-		35	13	2.1	18.6	1.7	3.3	13.4	40.6	54.5	96.7	2.2	0.5	6.4
	Dunmore -----	-		28	17	1.6	15.4	1.2	2.2	10.8	34.1	30.4	61.2	(D)	4.3	88.5
23	East Hempfield twp -----	-		37	19	2.3	28.7	1.6	3.2	17.0	62.8	156.1	217.3	5.3	0.7	15.9
	Fabricated metal products ---	-		5	3	0.8	9.8	0.5	1.0	5.3	21.6	40.0	61.1	(D)	(NA)	(NA)
	Easton -----	-		57	21	2.6	25.7	1.7	2.9	12.7	45.8	43.4	88.0	5.7	5.9	85.0
	Apparel and other textile products -----	-		12	8	0.9	5.7	0.8	1.2	4.8	7.0	1.7	8.7	(D)	1.5	10.3
34	East Stroudsburg -----	-		25	16	1.9	24.2	1.4	2.6	16.1	65.8	40.7	106.1	2.5	1.9	37.1
	Elizabethtown -----	-		23	8	1.2	15.0	0.9	1.6	9.4	37.7	82.5	116.1	8.6	1.4	15.7
	Ellwood City -----	-		24	12	1.6	23.7	1.2	2.3	15.2	61.8	61.9	126.6	7.6	(D)	(D)
	Fabricated metal products ---	-		8	4	0.8	12.6	0.7	1.3	8.8	25.3	30.9	57.8	2.7	(NA)	(NA)
23	Emmaus -----	-		25	13	1.7	16.1	1.1	2.0	8.7	41.1	35.3	76.2	2.8	2.0	26.0
	Apparel and other textile products -----	-		7	5	0.5	3.7	0.5	0.8	3.2	4.9	0.9	5.8	0.1	(NA)	(NA)
	Ephrata -----	-		33	23	3.2	26.6	2.4	4.2	17.6	41.4	44.4	86.3	2.0	3.3	40.2
	Apparel and other textile products -----	-		8	7	1.2	8.2	0.8	1.3	4.3	11.9	16.5	28.2	0.3	1.1	8.8
20	Erie -----	-		240	94	16.4	241.0	11.5	22.2	147.4	430.6	432.9	870.2	28.6	18.1	306.4
	Food and kindred products --	-		16	6	0.7	9.4	0.4	0.8	4.3	21.8	36.3	57.7	2.5	0.9	21.1
	Printing and publishing -----	E1		28	7	0.8	8.9	0.5	0.8	5.0	18.6	8.2	26.8	0.3	0.7	13.1
	Rubber and miscellaneous plastics products -----	-		12	7	1.7	20.9	1.0	2.0	11.1	36.1	26.8	62.2	1.9	1.9	29.6
33	Primary metal industries -----	-		13	10	2.3	31.1	1.8	3.4	22.8	44.4	54.4	103.6	5.9	2.0	26.6
	Fabricated metal products ---	-		47	22	3.1	42.5	2.3	4.1	28.0	89.6	74.3	165.8	4.3	3.4	52.6
	Fabricated structural metal products -----	-		13	5	1.1	15.3	0.7	1.2	8.3	33.4	27.6	62.8	(D)	(NA)	(NA)
	Metal forgings and stampings -----	-		4	4	0.8	11.9	0.7	1.2	9.5	23.3	26.6	49.5	(D)	(NA)	(NA)
35	Machinery, except electrical --	-		56	18	2.7	39.9	1.9	3.7	25.9	71.4	86.7	160.1	2.4	3.6	71.1
	Metalworking machinery ---	-		19	4	0.5	8.1	0.3	0.7	4.9	15.3	9.3	23.3	0.8	(NA)	(NA)
	Exeter -----	-		13	8	0.9	7.5	0.8	1.8	6.1	10.0	27.1	37.4	(D)	1.3	11.2
	Exeter twp -----	-		8	5	0.5	4.8	0.5	0.8	3.5	11.2	10.3	21.1	0.4	(NA)	(NA)
346	Falls twp -----	-		37	22	9.6	186.1	7.5	14.3	141.4	331.7	654.8	982.4	13.7	(D)	(D)
	Fleetwood -----	-		18	8	1.1	11.3	0.9	1.9	9.1	40.9	30.5	70.6	1.4	0.9	14.6
	Folcroft -----	-		32	18	1.4	16.3	1.0	1.9	9.9	44.1	94.9	139.2	2.3	1.1	19.3
	Fountain Hill -----	-		12	5	0.6	4.7	0.6	1.1	3.7	7.5	8.2	15.8	0.3	(D)	(D)
23	Apparel and other textile products -----	E2		7	4	0.5	3.5	0.5	0.9	2.9	5.5	5.1	10.6	0.1	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies.
For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
33 332	Franklin -----	-	35	12	4.7	69.5	2.8	5.5	44.1	154.3	155.5	306.5	7.9	3.9	72.3
	Freeland -----	-	11	7	0.5	3.7	0.4	0.7	2.9	5.9	3.4	9.5	0.4	0.6	4.8
	Gettysburg -----	-	38	12	0.9	7.8	0.7	1.3	5.2	19.0	36.6	55.4	0.6	1.3	14.7
	Greencastle -----	-	23	11	0.9	8.8	0.7	1.4	5.6	16.3	25.6	42.3	2.9	1.1	10.2
	Greensburg -----	-	68	21	1.5	19.4	1.1	2.1	12.2	38.1	27.5	65.5	2.1	1.9	30.9
	Greenville -----	-	24	6	1.7	26.0	1.3	2.4	18.6	55.9	100.1	157.5	2.4	2.2	40.7
	Grove City -----	-	23	6	1.7	23.3	1.3	2.9	17.8	64.3	46.5	111.8	(D)	1.9	19.9
	Hamburg -----	-	35	22	2.3	24.9	1.9	3.7	18.7	57.7	90.6	147.6	3.1	2.1	37.8
	Primary metal industries -----	-	5	5	0.5	6.3	0.4	0.9	4.3	10.4	5.0	15.6	0.6	0.6	6.3
	Iron and steel foundries -----	-	5	5	0.5	6.3	0.4	0.9	4.3	10.4	5.0	15.6	0.6	(NA)	(NA)
23	Hanover twp -----	-	26	10	1.1	10.3	1.0	1.7	8.5	22.2	15.1	37.8	0.7	1.4	12.1
	Apparel and other textile products -----	-	6	6	0.5	3.2	0.4	0.6	2.5	5.5	2.4	7.9	(D)	(NA)	(NA)
	Hanover -----	-	85	43	6.1	59.8	5.0	9.7	44.3	114.7	122.6	236.1	6.3	6.4	88.2
20	Food and kindred products --	E1	15	5	0.6	7.1	0.4	0.7	3.4	13.4	13.1	26.5	0.7	0.7	9.5
27	Printing and publishing -----	-	11	3	0.7	6.4	0.6	1.2	4.8	10.3	5.1	15.5	(D)	(NA)	(NA)
31	Leather and leather products -----	-	7	5	1.2	8.8	1.2	2.2	8.1	15.3	24.6	39.8	(D)	(NA)	(NA)
33	Primary metal industries -----	-	7	5	0.7	6.1	0.6	1.2	5.3	12.4	11.2	23.1	0.5	(NA)	(NA)
27	Harrisburg -----	-	87	34	5.0	63.3	3.3	6.3	38.1	149.3	110.8	256.0	7.8	6.3	118.3
	Printing and publishing -----	-	25	7	1.1	13.6	0.6	1.1	7.3	29.9	17.4	47.2	0.7	1.1	22.4
	Hatboro -----	-	47	13	1.3	14.8	1.1	2.1	11.4	87.4	32.0	119.1	1.3	1.4	65.2
	Hatfield twp -----	-	16	11	0.7	9.0	0.4	0.8	5.1	22.5	16.3	38.2	(D)	(NA)	(NA)
	Haverford twp -----	-	19	1	0.9	7.3	0.7	1.4	4.7	12.7	5.2	17.6	0.3	0.6	6.8
23 233 2339	Hazleton -----	-	94	49	5.2	47.7	4.3	7.4	35.6	80.6	103.2	187.7	5.2	5.8	84.5
	Apparel and other textile products -----	E2	34	25	2.0	11.4	1.9	2.9	10.1	17.7	7.7	26.1	0.2	2.2	18.0
	Women's and misses' outerwear -----	E2	23	17	1.4	7.8	1.3	2.1	6.8	11.0	2.4	13.3	(D)	(NA)	(NA)
33	Women's and misses' outerwear, n.e.c. -----	E2	8	6	0.7	4.3	0.6	1.1	3.8	6.0	1.5	7.5	(D)	(NA)	(NA)
	Primary metal industries -----	-	3	3	0.5	6.9	0.4	0.8	4.8	8.1	19.9	28.8	(D)	(NA)	(NA)
	Hempfield twp -----	-	13	6	0.7	6.8	0.5	1.0	5.1	11.2	20.1	31.4	0.3	0.5	5.7
35	Honesdale -----	-	22	10	1.3	12.7	1.1	2.0	9.1	37.3	56.3	91.8	(D)	1.4	25.6
	Horsham twp -----	-	45	22	2.5	34.6	1.1	2.3	12.7	64.5	58.4	118.6	5.3	1.0	14.7
	Machinery, except electrical --	-	8	4	1.0	15.5	0.3	0.7	4.0	24.4	27.6	50.6	(D)	0.7	10.3
	Huntingdon -----	-	16	7	1.4	15.0	1.2	2.4	12.3	37.5	24.9	63.0	(D)	1.9	24.6
	Indiana -----	-	31	9	2.0	22.6	1.5	2.8	15.1	38.7	52.0	92.6	(D)	1.0	18.5
	Irwin -----	-	22	6	0.5	7.0	0.3	0.6	3.9	13.1	9.9	23.3	0.5	1.0	12.6
	Jeannette -----	-	30	13	5.3	75.5	3.4	6.8	43.9	168.5	88.8	258.9	8.5	5.2	93.3
	Johnstown -----	-	52	24	13.3	228.0	10.2	17.4	166.9	328.7	428.0	796.7	20.1	16.2	260.8
	Kennett Square -----	-	28	9	1.1	11.7	0.9	1.6	8.2	26.5	36.8	63.1	1.6	0.9	14.5
	Kingston -----	-	23	10	1.2	10.1	1.0	1.8	7.1	21.6	21.3	43.1	0.3	2.6	25.9
20 27 34 35	Kittanning -----	-	18	11	1.0	9.4	0.9	1.6	6.8	15.7	21.3	37.3	1.8	0.8	12.9
	Kutztown -----	-	21	10	1.3	10.9	1.1	2.1	8.3	19.2	13.5	31.1	1.1	1.4	11.9
	Lancaster -----	-	150	64	15.2	206.4	11.3	22.5	131.6	449.5	384.4	828.1	49.6	8.7	163.7
	Food and kindred products --	E1	12	6	0.5	6.4	0.4	0.8	4.6	10.5	29.3	39.1	(D)	0.8	9.6
	Printing and publishing -----	-	29	10	1.6	22.3	1.2	2.4	14.5	44.4	23.1	67.2	1.7	1.2	19.7
	Fabricated metal products ---	-	27	17	2.4	27.6	2.0	3.9	21.7	63.7	58.1	120.2	2.3	1.9	38.0
	Machinery, except electrical --	-	15	4	0.9	11.4	0.7	1.5	8.7	30.9	18.3	48.9	0.8	0.6	12.8
35	Lansdale -----	-	82	29	5.0	67.1	3.7	7.4	43.3	138.8	261.4	401.1	3.8	5.8	102.5
	Machinery, except electrical --	-	21	6	0.6	8.4	0.4	0.9	5.0	16.4	13.5	29.6	0.6	0.7	11.7

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
		E ¹													
33	Lansford -----	-	14	6	0.6	4.5	0.6	1.0	3.2	10.1	6.9	16.8	(D)	0.6	5.8
	Latrobe -----	-	39	17	4.5	73.5	2.8	5.4	44.3	166.2	159.8	328.5	9.9	5.0	96.4
	Primary metal industries -----	-	6	5	2.4	43.1	1.6	3.1	28.1	73.5	51.2	125.1	5.3	3.1	50.3
2331	Lebanon -----	-	76	48	7.0	84.3	5.3	9.5	58.6	163.7	204.8	359.3	8.8	7.2	83.8
	Women's and misses' blouses and waists -----	-	7	6	0.5	3.2	0.5	0.7	2.8	4.0	0.8	4.7	(D)	(NA)	(NA)
23	Lehighton -----	-	32	10	1.7	12.4	1.5	2.6	10.0	16.8	9.9	26.6	0.7	1.4	10.6
	Apparel and other textile products -----	-	7	7	1.2	7.4	1.1	1.8	6.6	8.7	1.0	9.5	(D)	0.7	4.3
233	Women's and misses' outerwear -----	-	7	7	1.2	7.4	1.1	1.8	6.6	8.7	1.0	9.5	(D)	(NA)	(NA)
	Lewisburg -----	-	14	6	1.5	14.7	1.2	2.6	10.6	27.9	32.0	58.8	(D)	1.6	27.0
31	Lititz -----	-	38	15	2.9	30.3	2.2	4.7	21.1	123.4	154.6	273.9	2.1	2.1	94.8
	Leather and leather products -----	-	5	4	0.7	5.2	0.6	1.3	4.1	10.2	9.4	17.2	(D)	(NA)	(NA)
	Lock Haven -----	-	22	10	4.3	53.9	3.4	6.7	40.0	72.1	117.3	184.5	(D)	3.7	38.5
-	Lower Allen twp -----	-	9	6	1.2	11.2	0.5	0.8	4.0	25.9	103.0	127.4	1.1	(NA)	(NA)
	Lower Merion twp -----	-	71	11	1.4	17.6	0.5	0.9	5.4	17.7	15.8	33.8	0.9	5.5	68.9
	Administrative and auxiliary --	-	13	5	0.5	8.0	-	-	-	-	-	-	-	(NA)	(NA)
35	Lower Moreland twp -----	-	80	23	2.0	27.4	1.5	3.0	18.4	52.2	44.1	95.2	3.2	1.7	25.6
	Machinery, except electrical --	-	27	9	0.9	13.4	0.7	1.2	9.4	23.2	16.8	39.4	0.8	0.9	13.8
	General industrial machinery -----	-	6	6	0.5	7.3	0.3	0.7	4.3	10.6	9.5	20.4	0.2	(NA)	(NA)
356	Lower Providence twp -----	-	19	9	2.1	28.9	1.4	3.0	18.7	49.7	28.3	76.0	2.1	1.5	21.7
	Lower Southampton twp -----	-	61	16	1.1	15.1	0.8	1.7	9.1	28.9	23.7	52.4	1.8	(D)	(D)
	Loyalsock twp -----	-	11	8	0.8	10.9	0.4	1.3	4.3	18.4	23.1	42.0	0.6	(NA)	(NA)
-	Lykens -----	-	8	4	0.6	7.9	0.5	1.0	5.1	14.9	9.2	23.9	0.2	0.6	8.5
	McKees Rocks -----	-	22	10	1.6	21.8	1.1	2.3	14.9	37.1	23.7	60.6	1.3	(D)	(D)
	Mahanoy City -----	-	7	6	0.8	5.5	0.8	1.3	4.8	8.6	4.9	13.3	0.1	(D)	(D)
-	Malvern -----	-	24	10	0.5	7.5	0.3	0.5	2.9	11.0	9.3	20.3	0.5	(D)	(D)
	Manheim -----	-	30	11	2.0	24.2	1.5	2.7	17.2	61.3	51.4	112.0	2.2	2.3	36.5
	Manheim twp -----	-	51	24	4.3	69.7	2.2	4.6	30.4	128.3	220.5	341.7	9.5	2.6	41.3
-	Marietta -----	-	12	4	0.7	7.9	0.6	1.1	6.5	25.8	21.4	47.2	(D)	(D)	(D)
	Marple twp -----	-	35	10	0.6	7.6	0.5	0.9	4.6	17.8	13.2	30.9	0.9	0.6	10.3
	Meadville -----	-	74	22	4.8	58.7	3.4	6.8	38.0	96.4	79.8	175.6	4.7	6.2	107.7
35	Machinery, except electrical --	-	35	10	0.8	12.3	0.6	1.2	8.1	22.0	9.2	31.3	1.0	(NA)	(NA)
	Mechanicsburg -----	-	29	16	1.8	19.6	1.3	2.7	13.2	47.5	61.0	108.6	2.6	1.8	36.7
	Middletown twp -----	-	20	8	2.9	54.5	1.9	3.2	24.9	117.9	128.1	245.3	(D)	2.0	66.3
-	Mifflinburg -----	-	8	5	0.6	4.8	0.6	1.1	4.1	8.3	10.8	19.4	(D)	(D)	(D)
	Millicreek twp -----	-	107	42	5.1	75.4	3.0	5.9	35.8	150.4	116.0	265.0	7.9	4.4	72.8
	Rubber and miscellaneous plastics products -----	E1	15	9	0.7	7.5	0.5	1.1	5.1	14.6	15.0	29.6	2.0	0.7	12.6
3079	Miscellaneous plastics products -----	E1	15	9	0.7	7.5	0.5	1.1	5.1	14.6	15.0	29.6	2.0	(NA)	(NA)
	Fabricated metal products ---	-	21	10	0.9	10.9	0.6	1.2	6.5	19.9	16.8	36.7	1.8	0.8	13.8
34	Machinery, except electrical --	-	29	9	0.7	11.5	0.5	1.1	7.2	19.6	7.9	27.3	0.7	(NA)	(NA)
35	Millersburg -----	-	15	7	1.6	12.3	1.4	2.7	10.1	22.3	16.5	38.0	0.4	1.9	15.6
	Milton -----	-	21	15	3.8	48.7	3.1	6.3	37.6	117.1	184.0	302.2	3.1	3.7	63.2
	Monaca -----	-	20	13	4.5	67.6	3.3	6.1	45.2	119.6	250.3	378.5	(D)	4.3	77.8
331	Blast furnace and basic steel products -----	-	4	4	0.8	12.1	0.6	1.1	9.6	25.6	28.0	53.6	(D)	(NA)	(NA)
	Monongahela -----	-	11	4	0.8	11.2	0.6	1.2	9.1	18.6	20.5	39.0	0.9	0.9	16.9
	Monroeville -----	-	27	8	0.6	7.1	0.2	0.4	2.0	10.3	9.6	19.9	0.4	(NA)	(NA)
35	Montoursville -----	-	16	7	2.5	27.3	2.2	3.9	22.2	80.5	43.2	128.4	0.7	2.2	58.9

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
30	Moosic -----	-	14	9	0.6	6.8	0.4	0.9	4.0	14.6	22.2	37.2	2.3	1.5	17.5
	Morrisville -----	-	27	11	1.3	16.0	1.0	2.0	11.5	54.2	66.2	121.6	2.2	2.0	39.1
	Rubber and miscellaneous plastics products -----	-	5	4	0.5	5.7	0.4	0.8	4.3	9.3	7.3	16.4	0.7	0.6	7.1
23	Mount Carmel -----	-	15	7	0.6	3.7	0.6	0.8	3.1	5.8	4.4	10.2	0.2	1.0	8.6
	Apparel and other textile products -----	-	7	5	0.5	2.6	0.5	0.7	2.5	3.5	0.2	3.7	(Z)	0.6	3.2
	Mount Joy -----	-	18	9	1.3	13.0	1.1	2.1	9.9	56.2	61.1	115.4	2.2	1.6	50.3
20	Mount Pleasant twp -----	-	9	6	1.3	16.1	1.1	2.0	12.4	28.6	22.5	50.5	1.5	0.9	10.5
	Mount Union -----	-	7	3	0.5	6.0	0.4	0.8	5.1	13.8	4.9	19.8	(D)	1.3	13.3
	Muhlenberg twp -----	-	35	24	6.4	98.8	4.2	8.3	56.3	210.5	208.4	413.9	21.2	1.9	35.7
-	Food and kindred products --	-	9	8	0.6	8.4	0.5	0.8	3.8	19.2	57.0	76.5	1.6	0.5	7.0
	Administrative and auxiliary --	-	3	3	0.7	11.6	-	-	-	-	-	-	-	(NA)	(NA)
	Muncy -----	-	6	4	1.5	18.3	0.8	1.6	9.2	40.1	32.0	71.7	(D)	1.8	28.0
23	Myerstown -----	-	25	11	2.2	27.4	1.7	3.2	19.7	125.4	51.4	179.1	5.2	2.3	103.5
	Manticoke -----	-	11	7	0.5	4.0	0.5	0.8	2.9	8.8	13.1	22.1	0.1	0.6	4.1
	Nazareth -----	-	43	22	2.6	28.6	2.1	3.8	19.3	45.6	45.5	92.9	(D)	3.1	46.1
32	Apparel and other textile products -----	-	14	10	0.7	4.5	0.7	1.1	4.0	6.9	3.3	10.4	(D)	1.0	7.8
	Stone, clay, and glass products -----	-	5	3	0.6	9.2	0.5	0.9	6.6	16.0	15.1	32.4	(D)	0.9	23.1
	Nesquehoning -----	-	14	7	0.6	5.3	0.5	0.9	3.6	15.5	14.6	30.3	(D)	0.7	9.2
32	New Brighton -----	-	22	9	0.5	6.5	0.4	0.8	4.3	12.9	12.9	25.5	0.8	0.5	6.6
	New Castle -----	-	81	33	5.4	77.9	4.0	7.7	52.8	155.6	163.6	315.0	11.2	5.4	87.2
	Stone, clay, and glass products -----	-	12	6	1.7	19.4	1.2	2.2	12.4	33.1	22.0	54.6	1.2	1.8	22.1
34	Fabricated metal products ---	-	15	7	0.9	16.4	0.7	1.5	12.0	37.1	33.8	71.7	3.7	1.1	24.2
	Machinery, except electrical --	-	13	5	0.9	11.9	0.7	1.1	7.7	24.0	14.1	37.2	(D)	0.8	6.4
	New Holland -----	-	25	13	5.2	78.8	2.9	6.1	35.3	138.7	155.2	284.4	6.5	3.8	62.5
35	New Kensington -----	-	31	9	0.9	9.8	0.8	1.4	7.6	19.7	27.4	48.4	0.8	1.9	14.5
	Norristown -----	-	73	25	2.9	33.7	1.7	3.5	18.0	89.5	73.6	162.5	10.7	3.6	80.7
	Apparel and other textile products -----	E1	7	6	0.5	4.0	0.4	0.7	3.0	9.1	6.6	14.9	0.2	0.5	4.4
23	Machinery, except electrical --	-	11	4	0.9	9.6	0.2	0.5	3.3	20.7	9.8	32.0	0.2	0.8	28.0
	Northampton -----	-	21	14	2.5	23.4	2.2	3.8	19.1	37.3	33.1	70.5	1.0	2.3	27.7
	Apparel and other textile products -----	-	11	10	2.0	15.4	1.8	3.0	12.8	22.3	19.6	41.8	(D)	2.0	21.1
23	North East -----	-	17	7	1.2	15.9	0.8	1.7	9.7	44.4	50.5	96.3	2.0	1.2	33.1
	North Huntingdon twp -----	-	22	8	0.7	8.5	0.4	0.8	4.9	16.5	15.8	32.2	0.9	(NA)	(NA)
	North Union twp -----	-	6	4	0.7	8.6	0.6	1.1	6.4	17.3	20.7	37.9	0.3	(NA)	(NA)
23	North Wales -----	-	27	13	3.6	54.9	1.8	3.4	21.7	102.8	56.4	159.7	5.5	3.8	67.5
	Old Forge -----	-	29	16	1.1	8.0	0.9	1.5	5.7	17.1	13.2	30.3	1.0	1.4	12.6
	Apparel and other textile products -----	E1	15	10	0.7	4.0	0.6	1.0	3.1	9.0	2.5	11.4	(D)	0.8	4.1
23	Olyphant -----	-	14	9	0.8	6.9	0.8	1.4	5.8	10.6	11.0	21.6	0.9	0.8	5.3
	Apparel and other textile products -----	-	7	6	0.5	3.3	0.5	0.8	2.9	4.4	0.6	5.0	(D)	0.6	3.2
	Orwigsburg -----	-	16	10	0.9	6.5	0.8	1.4	5.4	10.2	8.5	18.7	0.2	1.3	10.7
23	Apparel and other textile products -----	-	4	4	0.5	2.8	0.4	0.7	2.5	3.8	3.1	7.0	(Z)	(NA)	(NA)
	Palmer twp -----	-	8	5	1.1	13.4	0.7	1.5	8.0	29.4	24.0	53.6	1.0	1.2	21.0
	Palmyra -----	-	19	8	0.9	7.8	0.8	1.6	6.2	15.5	19.4	35.0	0.2	(D)	(D)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Pen Argyl-----	-	32	20	1.3	9.3	1.2	2.1	7.9	15.5	14.1	30.1	0.2	2.1	17.6
23	Apparel and other textile products-----	-	18	14	0.9	5.6	0.8	1.4	4.9	8.7	4.9	13.8	(D)	1.2	7.5
2331	Women's and misses' blouses and waists-----	-	14	11	0.5	3.4	0.5	0.8	3.0	4.5	0.3	4.9	(Z)	(NA)	(NA)
	Penn Hills twp-----	-	30	7	0.7	9.3	0.4	0.8	5.6	15.3	26.3	42.7	0.5	0.6	10.5
	Perkasie-----	-	34	15	1.7	17.9	1.4	2.5	13.6	27.5	39.7	67.4	1.6	1.9	25.7
23	Apparel and other textile products-----	-	5	5	0.6	4.9	0.6	1.0	4.3	3.7	10.0	13.8	(D)	(NA)	(NA)
	Philadelphia-----	-	2 816	1 047	157.5	2 104.5	106.5	205.1	1 211.2	4 127.7	6 358.4	10 430.7	200.3	(NA)	(NA)
20	Food and kindred products --	-	216	102	20.9	302.2	14.5	28.7	191.7	789.2	1 552.8	2 336.0	62.7	(NA)	(NA)
201	Meat products-----	E1	46	19	4.0	61.0	3.0	5.9	42.6	136.9	578.0	713.0	15.2	(NA)	(NA)
2013	Sausages and other prepared meats-----	E1	27	12	2.7	41.0	1.9	3.6	27.7	99.8	274.5	374.0	13.1	(NA)	(NA)
202	Dairy products-----	-	15	8	1.4	22.0	0.8	1.6	11.1	56.5	131.7	187.4	3.6	(NA)	(NA)
2026	Fluid milk-----	-	5	4	0.6	9.2	0.2	0.5	3.4	26.0	56.8	82.4	(D)	(NA)	(NA)
205	Bakery products-----	-	48	21	6.5	95.2	4.5	9.1	60.3	248.1	146.8	394.8	9.0	(NA)	(NA)
206	Sugar and confectionery products-----	-	29	18	4.4	56.5	3.4	6.5	39.9	126.1	307.2	432.3	11.9	(NA)	(NA)
2065	Confectionery products --	-	22	12	1.3	11.0	1.1	1.9	8.0	28.2	42.0	69.2	0.9	(NA)	(NA)
208	Beverages-----	-	23	15	2.7	46.7	1.5	3.1	24.4	142.3	179.0	319.4	17.1	(NA)	(NA)
2085	Distilled liquor, except brandy-----	-	4	3	0.5	6.2	0.3	0.7	4.5	24.4	32.0	56.4	(D)	(NA)	(NA)
2086	Bottled and canned soft drinks-----	-	10	6	1.2	22.0	0.4	0.9	6.0	48.3	84.4	131.3	(D)	(NA)	(NA)
209	Miscellaneous foods and kindred products-----	-	28	12	1.1	11.9	0.8	1.6	8.1	55.7	145.6	201.2	4.2	(NA)	(NA)
22	Textile mill products-----	E1	146	76	10.4	91.7	8.8	16.1	66.4	185.7	214.0	394.8	5.0	(NA)	(NA)
225	Knitting mills-----	E2	43	29	5.6	46.0	4.7	8.2	32.3	93.9	110.1	200.7	3.0	(NA)	(NA)
2253	Knit outerwear mills-----	E2	27	24	5.3	43.4	4.5	7.6	30.3	89.9	107.1	193.5	(D)	(NA)	(NA)
226	Textile finishing, except wool-----	-	24	10	0.7	7.7	0.6	1.2	5.9	13.1	9.8	22.8	0.2	(NA)	(NA)
2269	Finishing plants, n.e.c.---	-	13	7	0.5	5.0	0.4	0.8	3.7	7.3	7.5	14.8	0.2	(NA)	(NA)
227	Floor covering mills-----	-	10	4	0.6	6.7	0.5	1.0	5.1	19.1	24.8	43.6	(Z)	(NA)	(NA)
228	Yarn and thread mills-----	E1	15	12	0.9	7.8	0.8	1.6	6.3	14.4	20.2	34.5	0.7	(NA)	(NA)
229	Miscellaneous textile goods-----	-	31	12	1.2	12.9	0.9	1.9	8.2	24.3	27.3	51.2	1.5	(NA)	(NA)
23	Apparel and other textile products-----	-	383	197	22.2	189.7	19.1	33.5	139.6	353.1	352.9	694.4	4.7	(NA)	(NA)
2311	Men's and boys' suits and coats-----	-	75	53	10.6	97.8	9.1	16.2	74.4	173.3	147.0	312.7	2.1	(NA)	(NA)
232	Men's and boys' furnishings-----	E1	53	35	2.2	16.1	1.9	3.2	11.3	23.9	47.8	71.5	0.3	(NA)	(NA)
2327	Men's and boys' separate trousers-----	-	12	8	0.5	3.5	0.4	0.7	2.4	4.1	6.9	11.2	0.1	(NA)	(NA)
233	Women's and misses' outerwear-----	-	106	56	4.9	37.7	4.2	7.2	26.8	89.1	103.2	189.6	0.8	(NA)	(NA)
2331	Women's and misses' blouses and waists-----	-	13	10	0.7	5.1	0.7	1.1	4.2	12.7	5.9	18.4	0.1	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c.---	-	26	11	1.2	8.7	1.0	1.6	5.8	22.1	38.1	58.2	0.1	(NA)	(NA)
236	Children's outerwear-----	-	15	13	1.3	11.3	1.2	2.0	8.4	21.7	13.3	34.2	0.2	(NA)	(NA)
239	Miscellaneous fabricated textile products-----	E1	105	30	2.5	21.9	2.2	3.8	15.0	36.5	32.8	69.2	0.6	(NA)	(NA)
2396	Automotive and apparel trimmings-----	-	17	8	0.5	5.4	0.4	0.8	3.9	9.4	11.9	21.5	0.1	(NA)	(NA)
25	Furniture and fixtures-----	E1	109	38	3.3	34.8	2.6	5.0	23.7	58.7	66.4	128.2	1.6	(NA)	(NA)
2514	Metal household furniture-----	E1	13	8	1.0	9.0	0.8	1.6	6.3	11.1	21.3	36.3	0.1	(NA)	(NA)
254	Partitions and fixtures-----	-	26	10	0.6	7.6	0.5	0.9	5.5	13.1	12.5	25.1	0.1	(NA)	(NA)
259	Miscellaneous furniture and fixtures-----	-	13	6	0.5	4.9	0.3	0.6	3.2	8.9	7.6	16.8	0.2	(NA)	(NA)
26	Paper and allied products ---	E1	101	57	5.9	80.1	4.5	9.0	53.6	144.8	216.3	360.1	5.8	(NA)	(NA)
2631	Paperboard mills-----	-	4	4	0.8	13.4	0.7	1.5	10.6	25.2	39.9	64.9	(D)	(NA)	(NA)
264	Miscellaneous converted paper products-----	E2	48	17	2.0	25.5	1.5	2.8	15.2	52.1	66.7	118.3	(D)	(NA)	(NA)
2642	Envelopes-----	-	8	4	0.6	6.9	0.4	0.8	4.2	11.0	11.3	22.2	0.7	(NA)	(NA)
265	Paperboard containers and boxes-----	-	47	35	3.1	40.9	2.4	4.6	27.6	67.2	107.2	173.9	3.0	(NA)	(NA)
2651	Folding paperboard boxes-----	-	16	8	0.7	8.6	0.6	1.1	6.0	15.0	17.8	32.3	0.6	(NA)	(NA)
2652	Setup paperboard boxes-----	-	8	8	0.6	5.7	0.5	0.9	4.3	8.2	8.1	16.2	0.7	(NA)	(NA)
2653	Corrugated and solid fiber boxes-----	-	15	13	1.4	21.6	1.0	2.0	13.5	37.1	56.7	93.6	1.4	(NA)	(NA)
27	Printing and publishing-----	-	458	112	20.3	280.4	12.1	21.4	157.6	502.7	302.0	808.2	24.9	(NA)	(NA)
273	Books-----	-	34	12	2.9	38.4	1.6	3.0	18.0	100.0	54.5	153.4	1.8	(NA)	(NA)
2731	Book publishing-----	-	19	7	2.3	31.8	1.0	1.9	12.7	88.9	45.5	133.1	1.3	(NA)	(NA)
2732	Book printing-----	-	15	5	0.6	6.6	0.5	1.1	5.3	11.1	9.0	20.2	0.6	(NA)	(NA)
275	Commercial printing-----	-	275	52	6.5	95.1	5.1	9.1	68.8	141.7	133.1	279.7	10.7	(NA)	(NA)
2751	Commercial printing, letterpress-----	E2	127	9	1.0	11.0	0.8	1.3	7.3	18.9	15.5	34.5	0.8	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies.
For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Philadelphia—Con.														
28	Chemicals and allied products -----	-	111	45	9.3	169.7	4.3	8.4	62.9	391.6	448.0	836.9	21.5	(NA)	(NA)
284	Soaps, cleaners, and toilet goods -----	E1	37	13	0.7	10.0	0.4	0.7	3.9	32.5	33.5	66.0	0.7	(NA)	(NA)
2851	Paints and allied products -----	-	15	6	1.3	22.1	0.8	1.5	11.3	53.4	51.1	105.0	(D)	(NA)	(NA)
286	Industrial organic chemicals -----	-	9	6	2.7	46.1	1.7	3.3	26.9	152.9	263.7	418.5	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	E1	65	21	1.3	14.6	1.0	1.9	9.6	32.5	26.8	58.9	3.2	(NA)	(NA)
3079	Miscellaneous plastics products -----	E1	54	17	1.0	10.5	0.8	1.4	6.6	24.7	19.4	43.8	2.8	(NA)	(NA)
32	Stone, clay, and glass products -----	-	46	17	2.0	22.5	1.5	2.8	15.1	42.7	47.4	91.5	2.3	(NA)	(NA)
329	Miscellaneous nonmetallic mineral products -----	-	28	11	1.3	14.0	0.9	1.7	8.8	25.3	22.8	49.4	1.7	(NA)	(NA)
3291	Abrasive products -----	-	6	2	0.5	6.2	0.4	0.6	3.3	12.2	7.9	20.3	0.4	(NA)	(NA)
33	Primary metal industries -----	E1	50	21	2.0	27.9	1.6	3.0	18.5	49.2	97.0	148.2	4.6	(NA)	(NA)
331	Blast furnace and basic steel products -----	-	8	3	0.6	8.8	0.4	0.8	5.8	13.0	38.5	56.9	1.2	(NA)	(NA)
336	Nonferrous foundries -----	-	10	6	0.6	6.4	0.5	0.8	4.3	9.4	8.0	17.3	0.1	(NA)	(NA)
34	Fabricated metal products -----	-	303	102	13.4	193.1	10.4	20.8	143.9	358.5	348.1	716.8	12.6	(NA)	(NA)
342	Cutlery, hand tools, and hardware -----	-	24	10	1.0	13.1	0.8	1.6	9.4	23.8	19.5	46.7	1.2	(NA)	(NA)
343	Plumbing and heating, except electric -----	-	7	4	0.5	6.8	0.3	0.5	3.3	12.1	13.7	25.8	0.3	(NA)	(NA)
344	Fabricated structural metal products -----	-	127	36	2.8	31.1	2.0	3.9	20.1	57.4	72.6	130.9	2.4	(NA)	(NA)
3442	Metal doors, sash, and trim -----	E1	27	9	0.5	4.7	0.4	0.8	2.9	9.3	14.2	23.0	(D)	(NA)	(NA)
3443	Fabricated plate work (boiler shops) -----	E1	14	7	0.5	5.4	0.4	0.7	3.8	9.5	7.8	17.9	0.1	(NA)	(NA)
3444	Sheet metal work -----	-	37	9	1.3	14.1	0.9	1.8	9.3	27.1	31.5	59.4	1.3	(NA)	(NA)
345	Screw machine products, bolts, etc. -----	-	18	7	0.6	7.5	0.4	0.9	5.9	11.8	13.7	25.5	(D)	(NA)	(NA)
347	Metal services, n.e.c. -----	E1	47	11	0.8	9.1	0.6	1.2	6.5	12.7	6.8	19.5	0.4	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	55	21	1.7	19.0	1.3	2.6	13.0	41.7	34.8	76.9	1.8	(NA)	(NA)
3494	Valves and pipe fittings -----	-	10	6	0.6	7.5	0.4	0.8	4.9	18.8	12.9	31.9	1.0	(NA)	(NA)
3496	Miscellaneous fabricated wire products -----	-	18	7	0.6	6.2	0.5	1.1	4.3	12.5	10.4	22.8	0.4	(NA)	(NA)
35	Machinery, except electrical -----	-	254	71	10.9	156.0	7.6	19.4	101.3	287.3	215.0	499.2	11.4	(NA)	(NA)
353	Construction and related machinery -----	-	11	8	1.8	28.0	1.4	2.7	21.6	53.1	45.7	99.2	(D)	(NA)	(NA)
354	Metaworking machinery -----	-	64	11	1.4	22.1	1.0	2.3	15.9	39.6	14.5	53.7	1.2	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures -----	-	47	9	1.2	19.9	0.9	2.1	14.5	35.0	12.2	46.8	1.1	(NA)	(NA)
355	Special industry machinery -----	-	31	11	1.5	20.7	0.8	1.5	10.0	32.4	27.3	59.1	0.8	(NA)	(NA)
3559	Special industry machinery, n.e.c. -----	-	8	4	0.9	13.0	0.5	1.0	6.6	23.0	18.7	41.0	(D)	(NA)	(NA)
356	Refrigeration and service machinery -----	-	18	10	1.1	9.8	0.9	5.8	6.4	20.8	15.8	35.7	0.6	(NA)	(NA)
3585	Refrigeration and heating equipment -----	-	12	7	1.0	8.3	0.8	5.6	5.5	18.0	13.7	30.8	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E1	89	14	1.5	20.3	1.3	2.6	14.5	38.7	30.6	68.5	1.7	(NA)	(NA)
36	Electric and electronic equipment -----	-	117	43	11.9	157.2	8.3	14.9	95.8	322.8	203.4	525.4	9.6	(NA)	(NA)
364	Electric lighting and wiring equipment -----	-	52	19	3.1	34.8	2.1	3.5	16.3	79.2	95.3	172.6	1.9	(NA)	(NA)
367	Electronic components and accessories -----	-	20	8	1.3	13.6	1.1	2.0	9.4	24.9	13.6	37.6	0.8	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies -----	-	8	6	0.8	10.1	0.7	1.3	8.6	11.7	21.1	34.5	0.3	(NA)	(NA)
371	Motor vehicles and equipment -----	-	24	4	1.9	33.4	1.7	3.5	27.4	43.4	55.5	99.2	2.2	(NA)	(NA)
3714	Motor vehicle parts and accessories -----	-	18	4	1.9	32.9	1.7	3.4	27.0	42.4	54.3	97.0	2.2	(NA)	(NA)
38	Instruments and related products -----	E1	76	27	1.9	20.7	1.4	2.7	12.5	38.8	23.9	61.2	1.2	(NA)	(NA)
382	Measuring and controlling devices -----	-	17	8	0.6	6.4	0.4	0.8	3.9	11.1	7.7	18.3	(D)	(NA)	(NA)
384	Medical instruments and supplies -----	-	38	13	1.0	10.1	0.8	1.4	6.2	18.6	10.5	28.4	0.4	(NA)	(NA)
-	Administrative and auxiliary -----	-	72	44	9.3	158.5	-	-	-	-	-	-	-	(NA)	(NA)
	Phoenixville -----	-	35	14	1.9	26.0	1.4	2.7	17.4	43.6	51.2	96.4	1.2	2.8	40.4

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			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			E ¹	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)							Wages (million dollars)
	Pittsburgh -----	-	719	240	55.3	1 025.8	22.9	43.3	314.8	1 030.1	1 067.0	2 060.0	54.5	62.3	685.3
20	Food and kindred products --	-	56	24	5.3	72.9	3.6	7.0	45.8	205.5	254.7	457.8	(D)	5.6	104.9
34	Fabricated metal products ---	-	81	32	3.9	58.1	2.6	4.9	34.4	134.9	209.4	339.1	(D)	3.7	70.9
35	Machinery, except electrical --	-	71	17	3.1	43.3	2.2	3.9	28.0	93.4	69.2	150.6	(D)	4.0	80.2
356	General industrial machinery -----	-	11	5	1.7	24.1	1.2	2.0	15.3	57.5	32.7	81.0	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	E1	39	14	1.0	12.0	0.8	1.5	7.1	25.5	18.6	44.6	(D)	2.1	35.5
--	Administrative and auxiliary --	-	61	41	22.6	542.1	-	-	-	-	-	-	-	(NA)	(NA)
	Pittston -----	-	43	25	1.5	9.0	1.4	2.4	7.6	11.7	4.5	16.4	0.2	1.8	10.8
23	Apparel and other textile products -----	E2	31	21	1.2	7.0	1.1	1.9	6.3	9.0	1.6	10.6	0.1	1.5	8.4
233	Women's and misses' outerwear -----	E2	28	19	1.1	6.4	1.0	1.7	5.8	8.0	1.4	9.4	(D)	(NA)	(NA)
2335	Women's and misses' dresses -----	E2	25	16	1.0	5.7	0.9	1.5	5.2	7.2	1.3	8.5	(Z)	(NA)	(NA)
	Plains twp -----	-	14	10	0.6	5.0	0.6	1.0	3.9	9.2	13.8	22.9	0.1	1.1	14.9
	Plum -----	-	16	7	1.1	15.8	0.7	1.4	6.2	28.1	26.5	54.7	1.1	(NA)	(NA)
	Plymouth -----	-	12	10	0.6	4.5	0.5	0.9	3.8	10.2	6.2	16.4	(D)	0.6	3.9
	Plymouth twp -----	-	34	16	1.9	25.8	1.2	2.1	12.6	52.1	44.8	94.7	2.1	5.2	103.6
	Portage -----	-	13	6	0.6	4.9	0.5	1.0	3.9	8.0	6.8	14.8	0.8	0.5	5.8
	Port Carbon -----	-	8	4	0.7	6.2	0.6	1.0	4.5	11.7	14.5	25.3	(D)	0.7	8.3
	Pottstown -----	-	79	32	5.2	76.6	3.6	7.1	47.2	176.1	179.5	353.6	8.9	7.3	147.7
28	Chemicals and allied products -----	-	7	4	0.9	16.7	0.5	1.3	8.7	42.4	66.7	108.9	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	18	9	0.5	6.6	0.4	0.8	4.5	17.4	20.0	37.1	1.0	1.4	20.3
35	Machinery, except electrical --	-	15	3	0.5	6.9	0.4	0.7	4.9	14.4	11.5	26.1	0.6	0.5	8.1
	Pottsville -----	-	35	19	1.7	14.5	1.4	2.5	10.8	36.5	50.5	87.3	1.5	2.2	23.8
23	Apparel and other textile products -----	-	8	8	0.7	4.0	0.6	1.1	3.7	8.7	4.9	13.7	0.2	1.1	7.8
	Punxsutawney -----	-	26	12	1.7	12.6	1.5	2.9	10.7	23.1	28.4	51.7	(D)	1.1	11.8
	Quakertown -----	-	64	23	2.0	21.0	1.6	3.1	15.0	44.2	39.9	83.1	1.1	3.1	41.4
23	Apparel and other textile products -----	-	5	4	0.6	5.0	0.5	1.0	4.2	7.8	3.1	10.7	(D)	1.4	12.7
	Reading -----	-	226	92	17.5	247.6	12.6	24.5	162.8	549.7	607.4	1 146.7	29.4	24.2	487.4
20	Food and kindred products --	-	28	12	1.9	20.4	1.3	2.6	12.3	49.8	54.8	104.3	2.4	2.5	39.4
206	Sugar and confectionery products -----	-	10	5	1.2	11.0	0.9	1.8	7.7	26.6	23.8	50.3	1.0	(NA)	(NA)
2065	Confectionery products --	-	10	5	1.2	11.0	0.9	1.8	7.7	26.6	23.8	50.3	1.0	(NA)	(NA)
22	Textile mill products -----	-	15	5	0.7	6.8	0.6	1.1	4.7	13.4	14.5	27.8	0.4	1.1	12.7
23	Apparel and other textile products -----	-	23	13	1.5	11.7	1.3	2.3	8.9	16.9	7.8	25.8	0.1	2.3	21.8
233	Women's and misses' outerwear -----	-	11	8	0.8	5.3	0.7	1.1	4.2	7.2	3.0	10.4	0.1	(NA)	(NA)
26	Paper and allied products ---	-	8	6	0.8	12.7	0.7	1.4	9.1	22.8	28.8	51.4	0.5	0.9	16.4
27	Printing and publishing -----	-	19	4	0.8	10.7	0.6	1.2	7.9	17.1	6.7	23.9	0.4	0.8	13.6
28	Chemicals and allied products -----	-	11	3	0.9	11.9	0.5	0.8	5.0	49.3	57.4	106.4	2.7	1.1	44.9
30	Rubber and miscellaneous plastics products -----	-	7	6	1.0	13.0	0.7	1.4	7.4	29.9	21.1	50.3	(D)	(NA)	(NA)
3079	Miscellaneous plastics products -----	-	7	6	1.0	13.0	0.7	1.4	7.4	29.9	21.1	50.3	(D)	(NA)	(NA)
34	Fabricated metal products ---	E1	23	10	0.7	7.7	0.6	1.1	5.8	11.6	16.3	29.8	1.1	1.2	14.4
35	Machinery, except electrical --	-	28	7	1.4	18.6	1.1	2.1	13.2	39.3	22.8	60.8	1.6	(NA)	(NA)
	Red Lion -----	-	44	12	1.6	17.6	1.2	2.4	12.0	34.7	52.5	87.9	3.3	1.8	20.2
34	Fabricated metal products ---	-	5	4	0.7	8.8	0.5	1.0	6.4	16.7	29.4	46.3	(D)	(NA)	(NA)
	Ridgway -----	-	19	10	1.2	13.0	0.9	1.8	9.3	26.7	27.2	54.4	1.5	1.0	13.4
	Roaring Spring -----	-	6	6	0.9	12.9	0.7	1.4	9.2	30.5	32.3	58.9	(D)	(D)	(D)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Rochester -----	-	16	5	0.6	7.4	0.4	0.8	5.1	14.4	13.4	26.8	0.4	0.7	13.7
	Royersford -----	-	17	8	1.1	14.8	0.9	1.9	11.0	29.7	27.0	56.8	1.0	1.5	21.9
	St. Marys -----	-	32	12	5.2	65.3	3.9	7.4	44.2	121.9	84.5	200.2	8.8	5.7	108.4
	Schuylkill Haven -----	-	30	18	2.3	15.9	1.6	2.9	10.0	25.5	40.0	64.1	0.9	2.7	24.1
23	Apparel and other textile products -----	-	9	6	0.9	6.8	0.8	1.4	4.2	11.2	8.9	18.8	(D)	0.6	5.3
	Scottdale -----	-	25	8	1.2	12.5	0.8	1.5	7.3	20.0	22.2	42.4	1.0	1.1	12.4
	Scranton -----	-	221	103	10.9	103.0	8.7	15.6	71.2	168.2	168.3	331.9	8.3	14.0	139.9
20	Food and kindred products --	E1	23	12	0.7	6.7	0.5	0.8	4.2	12.7	37.2	49.9	1.9	0.7	7.5
22	Textile mill products -----	-	7	6	0.9	7.8	0.8	1.4	6.0	9.3	14.0	23.5	(D)	(NA)	(NA)
23	Apparel and other textile products -----	E1	63	42	3.2	21.8	2.9	4.8	18.2	38.4	17.1	55.1	0.6	4.3	34.3
232	Men's and boys' furnishings -----	E1	9	7	0.8	5.9	0.8	1.2	5.1	9.1	5.3	14.2	0.1	(NA)	(NA)
233	Women's and misses' outerwear -----	E1	34	24	1.5	8.7	1.4	2.1	7.4	18.0	5.4	23.0	0.3	(NA)	(NA)
27	Printing and publishing -----	-	34	9	1.6	18.6	1.1	2.2	12.2	32.2	11.2	42.8	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	E1	6	5	0.7	8.1	0.5	1.1	5.7	12.0	25.6	37.6	1.7	(NA)	(NA)
3079	Miscellaneous plastics products -----	E1	6	5	0.7	8.1	0.5	1.1	5.7	12.0	25.6	37.6	1.7	(NA)	(NA)
34	Fabricated metal products ---	-	19	8	1.7	19.5	1.3	2.4	12.9	34.4	31.4	64.7	(D)	2.3	16.0
344	Fabricated structural metal products -----	E1	10	4	0.6	7.3	0.5	0.9	4.8	11.9	7.6	19.5	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	10	5	0.7	5.5	0.6	1.1	4.4	9.5	8.0	17.3	(D)	0.7	8.3
	Sellingsgrove -----	-	18	12	0.8	5.6	0.7	1.1	4.3	9.2	14.0	23.3	0.5	0.8	9.9
	Sellersville -----	-	20	8	2.2	29.3	1.7	3.8	21.5	54.1	27.2	80.0	1.8	1.8	32.3
	Shaler twp -----	-	32	10	1.1	15.0	0.9	1.7	10.0	29.4	24.7	54.2	3.0	1.3	16.6
	Shamokin -----	-	20	11	1.2	7.6	1.0	1.3	5.4	10.7	4.4	15.0	0.4	2.7	23.1
23	Apparel and other textile products -----	-	7	6	0.7	3.9	0.6	0.8	3.2	4.2	1.0	5.2	(Z)	2.0	15.4
2335	Women's and misses' dresses -----	E1	5	4	0.5	2.8	0.5	0.6	2.2	2.9	0.9	3.8	(Z)	(NA)	(NA)
	Sharon -----	-	30	14	5.0	79.0	3.6	6.6	52.9	150.0	118.3	268.1	8.6	6.4	105.2
	Shenandoah -----	-	23	13	0.9	6.0	0.8	1.3	4.7	9.5	3.3	12.8	0.3	1.1	7.1
23	Apparel and other textile products -----	E1	12	10	0.7	3.9	0.7	1.1	3.4	5.5	0.9	6.4	0.1	0.9	4.6
233	Women's and misses' outerwear -----	E1	12	10	0.7	3.9	0.7	1.1	3.4	5.5	0.9	6.4	0.1	(NA)	(NA)
	Shippensburg -----	-	16	13	2.0	18.8	1.6	3.0	14.0	39.2	36.4	74.0	1.8	2.2	28.6
23	Apparel and other textile products -----	-	5	5	0.6	4.1	0.6	1.1	3.9	6.8	3.4	10.2	0.1	0.8	4.9
35	Machinery, except electrical --	-	3	3	0.6	7.9	0.4	0.9	5.3	18.2	22.4	39.4	(D)	(NA)	(NA)
	Sinking Spring -----	-	12	6	0.9	9.1	0.8	1.6	6.9	15.6	17.1	32.7	1.4	1.2	17.8
	Slatington -----	-	13	8	0.9	8.0	0.8	1.4	6.0	12.2	12.0	23.9	0.5	0.9	9.9
	Somerset -----	-	17	9	1.1	9.0	0.9	1.9	7.1	26.3	40.0	65.4	1.0	1.1	15.9
	Souderton -----	-	21	10	1.0	10.3	0.9	1.5	7.6	20.4	10.1	30.5	0.4	1.2	28.0
	South Greensburg -----	-	8	5	2.0	28.0	1.5	2.8	19.5	47.7	41.9	90.2	3.3	(D)	(D)
	Spring City -----	-	17	8	1.7	14.5	1.4	2.5	11.4	33.3	56.5	88.1	1.4	1.9	14.5
	Springdale -----	-	9	5	0.5	6.4	0.4	0.6	3.7	24.2	31.8	55.2	3.5	1.0	11.1
	Springettsbury twp -----	-	23	15	7.7	122.2	5.9	11.6	85.7	304.8	262.8	568.3	23.3	1.9	26.2
	Springfield twp -----	-	39	10	0.8	7.7	0.4	0.7	3.7	13.5	13.7	27.7	0.6	0.7	12.5
	Spring Garden twp -----	-	26	17	1.8	20.4	1.4	2.8	13.1	46.3	55.6	100.2	1.5	1.5	26.9
	State College -----	-	34	13	1.2	14.0	0.8	1.5	8.3	38.0	21.4	57.9	1.8	1.6	43.8
	Stowe twp -----	-	12	9	1.1	16.2	0.7	1.3	8.9	40.8	46.7	86.7	2.9	1.1	20.3
	Stroudsburg -----	-	30	12	0.7	7.5	0.6	1.0	5.4	15.0	9.8	24.8	0.5	(D)	(D)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
23	Sunbury -----	-	36	16	2.1	21.5	1.4	2.8	12.8	39.4	52.2	91.6	1.7	2.3	29.8
	Swatara twp -----	-	29	12	3.7	65.6	0.6	1.2	5.7	23.2	25.5	47.1	1.2	(D)	(D)
	Swoyersville -----	-	19	12	1.1	9.2	1.0	1.7	7.8	16.4	14.3	30.2	0.2	0.8	7.3
	Apparel and other textile products -----	-	9	6	0.8	6.6	0.8	1.3	6.0	11.7	5.4	16.7	0.1	0.7	4.8
23	Tamaqua -----	-	26	13	2.5	24.8	1.9	3.4	16.7	57.4	50.9	107.7	4.3	2.1	24.9
	Apparel and other textile products -----	-	7	5	0.5	2.1	0.4	0.7	1.9	2.8	0.5	3.3	(Z)	0.5	2.2
	Tarentum -----	-	20	6	0.6	7.1	0.4	0.8	4.4	14.7	11.0	25.7	0.6	(NA)	(NA)
	Taylor -----	-	12	8	0.7	7.4	0.6	1.1	5.5	9.8	13.3	23.3	0.1	0.6	6.5
23	Apparel and other textile products -----	-	5	4	0.5	5.0	0.4	0.8	3.9	5.2	4.9	10.1	(D)	(NA)	(NA)
	Telford -----	-	30	10	0.9	7.4	0.8	1.3	5.5	16.3	11.6	27.4	0.5	0.7	8.0
	Titusville -----	-	21	12	1.5	22.8	1.3	2.5	18.3	46.3	91.5	135.3	1.7	2.0	36.5
	Tredyffrin twp -----	-	29	12	2.7	39.3	1.4	2.4	14.6	77.8	53.0	126.2	(D)	3.6	27.7
--	Tyrone -----	-	16	5	0.9	9.0	0.8	1.4	7.8	20.8	33.5	53.1	0.7	1.3	22.1
	Union City -----	-	18	9	1.2	10.9	0.9	1.7	7.2	21.8	35.8	55.8	2.2	1.1	9.9
	Uniontown -----	-	38	12	2.1	24.1	1.5	2.8	15.4	57.4	53.4	110.9	2.2	2.1	38.7
	Upper Darby twp -----	-	59	11	1.3	14.0	0.9	1.7	8.3	27.8	21.5	49.3	2.0	0.8	14.2
--	Upper Dublin twp -----	-	41	24	10.2	162.5	4.3	8.5	56.9	450.7	213.5	653.9	12.6	6.2	142.6
	Administrative and auxiliary --	-	6	4	0.9	12.3	-	-	-	-	-	-	-	(NA)	(NA)
	Upper Merion twp -----	-	67	31	8.6	158.0	3.6	7.1	51.6	234.4	233.4	477.4	17.3	5.3	105.1
	Machinery, except electrical --	-	15	8	1.9	32.5	1.3	2.9	21.5	72.8	36.5	107.3	4.4	1.7	33.4
--	Administrative and auxiliary --	-	11	9	1.0	18.1	-	-	-	-	-	-	-	(NA)	(NA)
	Upper Moreland twp -----	-	63	30	2.8	29.1	1.9	3.5	17.3	63.5	54.0	115.7	5.1	2.3	33.1
	Upper Southampton twp ----	-	56	25	1.5	18.0	1.2	2.3	12.1	35.0	34.2	88.7	2.3	1.6	22.5
	Vandergrift -----	-	11	4	1.3	20.9	1.0	1.8	15.7	24.5	8.4	30.4	2.0	(D)	(D)
35	Verona -----	-	17	9	1.0	12.4	0.6	1.2	7.3	21.0	25.4	45.8	0.9	1.1	15.4
	Warminster twp -----	-	59	22	5.6	77.8	3.7	8.0	42.8	149.8	102.7	250.6	6.3	4.5	78.1
	Machinery, except electrical --	-	17	4	1.1	16.3	0.8	1.6	10.2	35.0	25.8	59.9	1.2	(NA)	(NA)
	Electric and electronic equipment -----	-	5	4	0.8	8.0	0.6	1.1	5.3	22.2	11.4	33.3	1.1	(NA)	(NA)
344	Warren -----	-	53	26	4.0	50.2	2.8	5.7	31.6	115.6	381.0	487.4	7.4	3.4	64.9
	Fabricated structural metal products -----	-	5	4	0.9	12.9	0.6	1.2	8.2	22.7	24.4	45.9	0.9	(NA)	(NA)
	Washington -----	-	55	25	4.1	56.5	3.3	6.1	42.5	128.6	193.0	318.5	5.2	5.0	85.5
	Watsonstown -----	-	9	6	1.9	17.2	1.8	2.9	15.5	33.7	56.1	86.2	2.3	1.2	12.9
23	Waynesboro -----	-	33	17	3.8	43.7	2.7	5.6	28.4	76.9	51.0	127.2	3.5	3.4	43.5
	Apparel and other textile products -----	E2	4	4	0.5	4.7	0.5	0.8	4.2	11.7	5.1	15.3	0.2	(NA)	(NA)
	Machinery, except electrical --	-	11	6	2.2	30.2	1.3	3.1	17.1	52.8	29.6	81.4	2.8	2.3	35.2
	Wellsboro -----	-	11	4	0.8	9.3	0.6	1.1	6.2	25.7	40.5	66.8	0.9	0.8	23.0
35	West Chester -----	-	45	12	1.8	21.8	1.2	2.7	12.2	48.2	53.0	100.9	2.3	2.5	60.1
	West Goshen twp -----	-	35	16	3.3	38.5	2.5	4.7	26.3	87.8	94.0	180.9	9.0	1.5	23.1
	West Hazleton -----	-	17	14	3.2	33.9	2.5	4.9	25.5	86.0	130.4	215.3	4.8	3.3	51.2
	West Manchester twp -----	-	31	14	3.4	45.3	2.7	5.4	35.1	147.9	146.3	256.2	7.6	1.7	37.2
35	West Mifflin -----	-	17	9	3.5	80.9	2.5	5.6	57.3	132.2	154.0	283.5	4.2	(D)	(D)
	West Norriton twp -----	-	15	4	1.1	15.5	0.7	1.3	6.5	37.9	21.2	58.7	0.5	(NA)	(NA)
	West Pittston -----	-	23	8	0.6	6.7	0.5	1.0	4.7	12.5	8.8	21.5	0.5	1.6	23.6
	West Reading -----	-	15	8	1.4	11.3	1.2	2.3	8.8	28.3	24.3	51.6	1.2	1.0	14.0
35	West York -----	-	10	7	1.4	15.7	1.1	2.2	11.7	27.4	19.0	46.2	0.6	0.8	11.2

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1977 and 1972—Con.

[Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	Place and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Whitehall -----	-	21	9	1.7	20.3	1.3	2.6	15.3	46.3	52.2	95.5	3.8	0.8	10.8
	Whitemarsh -----	-	29	10	1.3	20.7	0.8	1.6	8.0	32.6	33.2	65.9	1.9	7.6	100.0
	Wilkes-Barre -----	-	141	75	8.3	73.4	8.4	10.9	48.3	124.4	103.5	226.0	12.7	10.7	123.5
20	Food and kindred products --	-	18	8	0.6	6.2	0.4	0.7	4.0	11.9	13.5	25.4	(D)	0.7	11.4
23	Apparel and other textile products -----	E6	35	29	2.5	18.4	2.2	3.6	13.5	25.6	20.9	48.7	0.4	(NA)	(NA)
233	Women's and misses' outerwear -----	E7	27	24	2.2	16.2	1.9	3.1	11.8	23.4	16.9	42.1	0.3	(NA)	(NA)
27	Printing and publishing -----	-	18	4	0.5	7.8	0.3	0.6	4.5	12.0	3.7	15.7	0.2	0.9	12.5
30	Rubber and miscellaneous plastics products -----	E6	5	3	0.8	5.8	0.7	1.2	4.6	8.8	8.5	17.2	(D)	(NA)	(NA)
31	Leather and leather products -----	-	4	4	0.8	5.6	0.7	1.1	4.2	8.0	7.2	14.7	(D)	1.5	12.0
314	Footwear, except rubber --	-	4	4	0.8	5.6	0.7	1.1	4.2	8.0	7.2	14.7	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	10	4	0.6	8.0	0.4	0.7	4.4	19.9	14.9	34.6	0.3	0.5	10.4
	Williamsport -----	-	92	49	9.7	114.5	7.3	13.6	78.2	310.5	279.8	577.8	12.0	10.0	163.9
20	Food and kindred products --	-	12	8	0.9	8.9	0.7	1.2	6.4	46.2	44.6	91.4	0.9	0.8	29.2
	Wilson -----	-	12	11	2.7	36.0	2.1	4.0	26.3	71.4	43.3	113.2	1.6	0.6	13.2
	Wrightsville -----	-	16	5	0.9	8.6	0.7	1.2	6.3	8.5	9.4	22.1	(D)	0.9	14.2
	Wyomissing -----	-	14	9	2.0	23.8	1.4	2.7	13.9	29.7	28.4	59.5	1.3	(NA)	(NA)
	York City -----	-	163	89	18.3	237.0	12.8	24.7	131.1	383.9	437.4	807.1	17.6	22.7	367.8
20	Food and kindred products --	-	18	10	0.6	7.1	0.4	0.9	4.4	23.3	53.5	76.8	1.2	0.9	20.3
22	Textile mill products -----	E8	7	5	2.6	20.1	2.4	4.6	17.5	44.4	29.0	72.3	1.0	2.7	30.9
23	Apparel and other textile products -----	-	16	13	1.4	7.8	1.3	2.1	6.6	11.5	10.2	20.2	0.1	2.0	8.7
2335	Women's and misses' dresses -----	-	4	4	0.5	2.6	0.5	0.7	2.4	2.7	0.4	3.0	(D)	(NA)	(NA)
26	Paper and allied products ---	-	5	4	0.5	7.3	0.4	0.9	5.9	16.6	21.6	37.8	0.8	0.7	12.8
27	Printing and publishing -----	-	20	6	0.5	6.1	0.4	0.7	4.4	8.9	3.6	12.4	0.2	1.3	22.2
34	Fabricated metal products ---	-	17	7	0.6	7.3	0.5	1.1	5.4	17.0	17.5	33.7	1.3	0.9	13.2
35	Machinery, except electrical --	-	32	19	6.8	117.4	4.2	8.2	54.6	158.0	189.0	340.0	8.1	7.9	154.5
353	Construction and related machinery -----	-	5	5	0.8	9.4	0.5	1.0	5.7	24.3	26.1	50.3	(D)	(NA)	(NA)
	Youngwood -----	-	11	9	1.2	16.1	0.9	1.7	9.7	27.7	32.1	60.9	0.9	1.2	24.8
	Zellenople -----	-	31	17	1.6	23.2	1.1	2.2	13.6	44.5	74.6	120.8	(D)	1.5	26.8

Note: "Place" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

¹ Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

² Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

³ Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
PENNSYLVANIA	18735	1579	30	536	1979	1324	454	398	2190	594	167	570	161	978	598	1940	2497	776	341	410	667	586
1 TO 4 EMPLOYEES	6156	550	6	99	318	699	135	62	1097	192	46	136	34	305	112	544	951	231	106	139	318	76
5 TO 9 EMPLOYEES	2309	209	3	38	124	193	57	20	288	73	44	73	9	151	54	265	376	89	48	53	92	65
10 TO 19 EMPLOYEES	2566	197	2	68	167	188	76	50	295	88	25	86	11	156	77	293	438	89	33	64	84	79
20 TO 49 EMPLOYEES	3153	268	9	115	542	448	83	94	243	110	24	113	23	169	93	386	355	105	38	58	82	95
50 TO 99 EMPLOYEES	1941	131	3	83	474	54	46	59	127	50	11	65	26	75	78	201	166	81	43	36	46	86
100 TO 249 EMPLOYEES	1560	147	2	87	266	39	42	78	86	42	6	62	31	69	74	163	114	100	29	28	23	72
250 TO 499 EMPLOYEES	615	46	3	32	74	2	11	22	34	21	3	25	23	29	49	60	46	55	16	15	12	34
500 TO 999 EMPLOYEES	261	24	2	11	10	1	4	8	16	10	3	5	4	19	28	22	30	19	10	9	7	19
1000 TO 2499 EMPLOYEES	122	6	1	3	4	1	1	5	2	1	2	4	1	5	14	5	14	16	12	6	2	15
2500 EMPLOYEES AND OVER	52	1	1	1	1	1	1	1	2	1	1	1	1	1	19	1	7	6	6	2	1	5
ADAMS COUNTY	129	21	2	1	15	16	5	5	11	2	1	3	5	5	3	4	12	7	3	3	1	8
1 TO 4 EMPLOYEES	72	13	1	1	6	11	2	1	6	2	1	2	1	2	3	2	1	1	2	1	1	6
5 TO 9 EMPLOYEES	34	2	1	1	8	4	1	1	2	1	1	2	2	2	3	2	1	1	2	1	2	2
10 TO 19 EMPLOYEES	18	4	1	1	1	1	2	2	3	1	1	1	1	1	1	1	1	1	1	1	1	1
20 TO 49 EMPLOYEES	5	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
50 TO 99 EMPLOYEES	1736	121	1	9	47	58	42	25	267	80	19	44	7	115	73	249	241	80	15	52	87	104
1 TO 4 EMPLOYEES	1150	73	1	5	32	49	30	9	210	51	14	31	3	81	34	149	179	47	6	36	73	36
5 TO 9 EMPLOYEES	385	28	1	4	13	7	9	10	48	18	5	9	3	25	16	66	41	24	7	12	10	30
10 TO 19 EMPLOYEES	99	12	1	1	2	2	2	4	6	5	1	1	1	7	3	20	9	5	2	2	4	13
20 TO 49 EMPLOYEES	102	8	1	1	1	1	1	2	3	6	1	1	1	2	20	14	12	4	2	2	2	25
250 EMPLOYEES AND OVER	79	6	1	1	2	8	1	1	7	5	1	1	1	15	2	9	16	5	1	1	1	1
ARMSTRONG COUNTY	45	4	1	1	1	6	1	1	1	1	1	1	1	2	1	6	12	3	1	1	1	1
1 TO 4 EMPLOYEES	22	1	1	1	1	2	1	1	1	1	1	1	1	9	1	2	3	1	1	1	1	1
5 TO 9 EMPLOYEES	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10 TO 19 EMPLOYEES	7	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1
20 TO 49 EMPLOYEES	186	21	1	1	2	8	1	1	14	8	5	8	1	23	24	24	24	2	7	1	4	9
1 TO 4 EMPLOYEES	109	16	1	1	1	8	1	1	11	5	3	5	1	14	5	10	16	1	5	1	4	4
5 TO 9 EMPLOYEES	45	4	1	1	1	1	1	1	1	2	1	1	1	3	7	9	7	1	2	2	1	1
10 TO 19 EMPLOYEES	17	1	1	1	1	1	1	1	1	1	1	1	1	3	6	3	1	1	1	1	1	1
20 TO 49 EMPLOYEES	15	1	1	1	1	1	1	1	1	1	1	1	1	3	6	3	1	1	1	1	1	1
250 EMPLOYEES AND OVER	50	5	1	1	3	22	1	1	5	1	1	2	1	2	2	3	1	1	1	1	1	1
1 TO 4 EMPLOYEES	32	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5 TO 9 EMPLOYEES	13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10 TO 19 EMPLOYEES	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20 TO 49 EMPLOYEES	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	667	76	1	52	67	31	16	14	46	25	12	14	7	28	39	65	84	29	17	3	23	19
1 TO 4 EMPLOYEES	358	41	1	21	18	22	6	4	39	19	11	13	1	21	9	9	63	13	8	3	16	3
5 TO 9 EMPLOYEES	192	25	1	17	36	7	3	5	6	2	1	7	1	4	14	18	16	3	5	1	5	12
10 TO 19 EMPLOYEES	65	6	1	11	11	1	3	3	1	2	1	2	1	2	9	5	2	6	1	1	2	2
20 TO 49 EMPLOYEES	52	4	1	6	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	147	30	1	3	10	13	1	5	23	5	2	2	3	12	4	9	7	5	4	2	6	1
1 TO 4 EMPLOYEES	84	13	1	4	4	12	1	1	19	5	1	2	3	6	2	5	4	1	2	1	1	1
5 TO 9 EMPLOYEES	35	13	1	3	3	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
10 TO 19 EMPLOYEES	12	4	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
20 TO 49 EMPLOYEES	16	1	1	1	3	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	79	10	1	2	5	19	1	3	10	2	1	1	1	3	3	6	9	1	1	2	3	1
1 TO 4 EMPLOYEES	48	6	1	1	1	17	1	1	6	1	1	1	1	2	1	1	8	1	1	1	1	1
5 TO 9 EMPLOYEES	20	2	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1
10 TO 19 EMPLOYEES	6	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20 TO 49 EMPLOYEES	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	1046	46	1	24	31	40	29	37	94	39	7	60	8	52	31	123	233	76	20	43	39	14
1 TO 4 EMPLOYEES	588	24	1	9	12	11	18	13	68	24	3	31	5	32	26	47	179	43	13	27	26	6
5 TO 9 EMPLOYEES	301	18	1	12	11	9	10	13	22	10	4	22	3	16	6	47	45	25	5	13	11	5
10 TO 19 EMPLOYEES	64	3	1	3	1	1	1	2	1	2	1	6	1	1	1	1	6	4	1	1	2	2
20 TO 49 EMPLOYEES	23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	200	15	1	1	3	15	4	1	13	12	5	6	1	30	9	24	37	6	4	3	3	9
1 TO 4 EMPLOYEES	115	12	1	1	2	14	1	1	4	5	3	3	1	18	4	13	19	5	3	2	4	4
5 TO 9 EMPLOYEES	60	3	1	1	1	1	1	1	4	1	1	2	1	1	2	1	1	1	1	1	1	1
10 TO 19 EMPLOYEES	15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20 TO 49 EMPLOYEES	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CA0's
CAMBERTA COUNTY	169	21	-	-	19	30	2	2	18	2	2	2	1	16	3	16	14	2	6	3	9	1
1 TO 19 EMPLOYEES	108	11	-	-	29	1	1	2	14	1	2	1	1	9	-	9	11	2	3	2	6	1
20 TO 99 EMPLOYEES	42	8	-	-	6	1	1	-	3	1	-	-	-	7	-	7	1	-	2	2	2	-
100 TO 249 EMPLOYEES	14	2	-	-	7	-	-	-	-	-	-	-	-	-	2	-	2	-	1	1	1	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAMERON COUNTY	23	1	-	-	7	-	-	-	1	-	-	-	-	-	-	2	5	2	3	-	-	1
1 TO 19 EMPLOYEES	16	1	-	-	5	-	-	-	1	-	-	-	-	-	-	1	3	1	2	-	-	1
20 TO 99 EMPLOYEES	3	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CARBON COUNTY	113	10	-	6	48	3	5	1	5	3	-	1	-	6	8	4	5	5	1	-	2	-
1 TO 19 EMPLOYEES	60	9	-	5	11	3	5	1	4	2	-	-	-	5	2	4	5	2	2	-	1	-
20 TO 99 EMPLOYEES	36	1	-	1	26	-	-	-	1	-	-	-	-	1	3	-	2	-	-	-	1	-
100 TO 249 EMPLOYEES	10	-	-	-	7	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CENTRE COUNTY	109	5	1	-	5	16	1	-	20	7	3	1	-	8	1	1	14	11	1	11	3	-
1 TO 19 EMPLOYEES	68	2	-	-	13	1	-	-	14	4	3	1	-	1	-	1	12	5	1	7	3	-
20 TO 99 EMPLOYEES	20	2	-	-	2	2	-	-	5	3	-	-	-	2	-	-	1	1	-	2	-	-
100 TO 249 EMPLOYEES	15	1	-	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	1	-	-	-	-	-	1	-	-	-	-	1	1	-	-	-	-	-	-	-
CHESTER COUNTY	511	39	-	11	19	19	9	19	56	29	5	19	1	27	18	59	78	37	10	13	16	27
1 TO 19 EMPLOYEES	296	21	-	4	9	18	6	6	44	14	2	4	1	18	4	35	53	23	6	6	11	11
20 TO 99 EMPLOYEES	140	9	-	4	8	1	2	10	4	11	3	9	-	7	8	20	17	9	1	5	5	1
100 TO 249 EMPLOYEES	40	5	-	2	2	-	1	2	5	2	-	2	-	2	1	3	4	3	2	1	1	6
250 EMPLOYEES AND OVER	35	4	-	1	-	-	-	-	1	-	-	4	-	-	5	1	4	2	2	1	-	3
CLARION COUNTY	55	4	-	-	2	20	2	1	5	-	1	3	-	7	-	3	3	1	1	1	1	-
1 TO 19 EMPLOYEES	38	2	-	-	1	15	1	-	5	-	1	2	-	4	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	11	2	-	-	-	3	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLEARFIELD COUNTY	134	10	-	-	15	42	1	1	8	-	2	-	2	17	3	12	11	4	-	1	4	1
1 TO 19 EMPLOYEES	83	7	-	-	2	37	1	-	5	-	2	-	-	6	4	3	6	1	-	-	3	1
20 TO 99 EMPLOYEES	30	2	-	-	6	5	-	-	2	-	-	-	-	1	6	1	4	1	-	-	-	-
100 TO 249 EMPLOYEES	13	1	-	-	5	-	-	-	1	-	-	-	-	1	2	2	1	1	-	-	1	-
250 EMPLOYEES AND OVER	8	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLINTON COUNTY	50	4	-	3	2	16	2	2	4	4	2	1	-	4	1	-	1	-	2	1	1	-
1 TO 19 EMPLOYEES	28	3	-	-	12	1	1	-	3	1	2	1	-	2	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	11	1	-	-	1	3	1	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COLUMBIA COUNTY	128	20	1	16	20	15	4	2	9	-	1	3	-	6	2	10	7	2	1	1	4	4
1 TO 19 EMPLOYEES	66	16	-	8	4	10	4	1	6	-	1	-	-	6	2	5	5	1	-	-	3	2
20 TO 99 EMPLOYEES	39	3	-	3	3	2	-	-	1	-	-	-	-	-	-	2	2	1	-	-	1	1
100 TO 249 EMPLOYEES	17	3	-	3	3	2	-	-	2	-	-	-	-	-	-	3	1	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRAWFORD COUNTY	188	16	-	1	1	29	1	1	9	4	1	11	1	10	7	18	65	8	2	-	3	-
1 TO 19 EMPLOYEES	119	12	-	-	1	22	1	1	7	1	1	6	1	2	4	7	47	1	-	-	-	-
20 TO 99 EMPLOYEES	45	4	-	1	7	-	-	-	2	-	-	1	-	2	-	6	16	4	-	-	-	-
100 TO 249 EMPLOYEES	15	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	2	-	-	-	1	2
250 EMPLOYEES AND OVER	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CUMBERLAND COUNTY	187	20	-	6	16	6	1	8	34	3	-	4	2	13	3	10	23	16	3	2	4	13
1 TO 19 EMPLOYEES	105	7	-	3	5	6	1	2	27	3	-	-	-	10	1	4	17	5	2	2	3	7
20 TO 99 EMPLOYEES	47	10	-	1	9	-	-	-	6	-	-	-	-	-	-	4	4	4	3	1	1	4
100 TO 249 EMPLOYEES	20	2	-	-	2	-	-	-	1	-	-	-	-	1	1	2	3	3	1	-	-	1
250 EMPLOYEES AND OVER	15	1	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
DAUPHIN COUNTY	270	33	-	1	29	12	7	1	58	3	2	3	7	6	2	28	34	10	6	4	11	13
1 TO 19 EMPLOYEES	160	13	-	-	5	16	5	1	48	2	2	3	1	6	1	18	20	6	1	4	9	5
20 TO 99 EMPLOYEES	69	13	-	-	17	2	-	-	8	1	-	-	-	-	-	7	9	2	2	1	2	3
100 TO 249 EMPLOYEES	21	4	-	1	7	-	-	-	1	-	-	-	-	-	-	2	3	2	1	-	-	-
250 EMPLOYEES AND OVER	20	3	-	-	-	-	-	-	1	-	-	-	-	-	-	1	2	2	2	1	-	5

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
DELAWARE COUNTY. 1 TO 19 EMPLOYEES.	559	26	-	7	25	5	17	12	110	28	4	26	1	23	15	63	98	21	12	19	23	24
20 TO 99 EMPLOYEES.	372	13	-	4	17	3	14	4	89	19	2	18	-	16	7	39	70	12	8	15	15	7
100 TO 249 EMPLOYEES.	133	7	-	3	6	2	2	2	16	5	-	6	1	7	4	21	26	5	2	2	6	10
250 EMPLOYEES AND OVER.	21	1	-	-	1	-	1	2	2	-	2	-	-	-	-	1	1	1	2	1	2	4
ELK COUNTY. 1 TO 19 EMPLOYEES.	87	4	-	-	-	21	-	2	5	3	-	2	1	4	3	9	26	7	-	-	-	-
20 TO 99 EMPLOYEES.	55	1	-	-	-	18	-	-	3	2	-	2	-	3	1	5	20	-	-	-	-	-
100 TO 249 EMPLOYEES.	16	3	-	-	-	3	-	-	1	2	-	-	1	-	1	2	4	-	-	-	-	-
250 EMPLOYEES AND OVER.	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	6	-	-	-	-
ERIE COUNTY. 1 TO 19 EMPLOYEES.	510	32	-	-	7	22	14	3	43	11	4	42	1	16	26	88	121	25	18	11	17	9
20 TO 99 EMPLOYEES.	301	18	-	-	4	17	3	-	35	7	3	15	-	13	8	47	87	11	11	5	12	4
100 TO 249 EMPLOYEES.	123	8	-	-	3	4	5	2	7	4	-	17	1	3	9	22	21	6	3	3	4	4
250 EMPLOYEES AND OVER.	33	2	-	-	-	-	2	1	1	-	-	2	-	-	5	15	5	5	2	3	-	-
FAYETTE COUNTY. 1 TO 19 EMPLOYEES.	143	11	-	1	10	34	2	-	16	5	2	-	-	10	8	13	18	2	3	3	2	3
20 TO 99 EMPLOYEES.	98	9	-	-	1	31	1	-	13	2	2	-	-	7	5	8	11	2	1	1	2	2
100 TO 249 EMPLOYEES.	27	1	-	1	5	3	1	-	2	2	-	-	-	1	3	3	5	-	-	-	-	1
250 EMPLOYEES AND OVER.	6	-	-	-	1	-	-	-	1	1	-	-	-	-	-	1	-	-	2	1	-	-
FOREST COUNTY. 1 TO 19 EMPLOYEES.	6	-	-	-	-	1	-	-	1	-	1	1	-	1	1	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
FRANKLIN COUNTY. 1 TO 19 EMPLOYEES.	156	16	-	1	13	31	3	2	16	-	1	1	4	13	2	13	30	4	3	1	1	1
20 TO 99 EMPLOYEES.	87	7	-	-	8	24	2	1	12	-	1	-	-	9	2	8	17	2	1	1	-	-
100 TO 249 EMPLOYEES.	43	3	-	-	3	5	1	1	3	-	-	1	-	2	-	5	6	2	1	-	-	1
250 EMPLOYEES AND OVER.	11	-	-	1	2	-	-	1	1	-	-	-	1	-	-	-	5	-	-	-	-	-
FULTON COUNTY. 1 TO 19 EMPLOYEES.	19	1	-	-	-	9	1	-	3	-	1	-	-	-	-	1	2	-	-	-	1	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
GREENE COUNTY. 1 TO 19 EMPLOYEES.	33	6	-	-	3	9	-	-	4	-	-	-	-	3	-	-	4	-	1	1	-	1
20 TO 99 EMPLOYEES.	24	5	-	-	1	1	-	-	1	-	-	-	-	2	-	-	1	-	1	-	-	-
100 TO 249 EMPLOYEES.	8	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HUNTINGDON COUNTY. 1 TO 19 EMPLOYEES.	53	3	-	-	3	25	-	1	4	1	1	1	1	7	1	3	1	2	-	-	-	-
20 TO 99 EMPLOYEES.	38	2	-	-	2	24	-	-	2	1	-	-	-	4	1	2	1	1	-	-	-	-
100 TO 249 EMPLOYEES.	7	1	-	-	1	1	-	-	2	-	-	-	1	1	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	2	-	-	-	1	-	-	1	-	-	-	1	-	2	-	-	-	1	-	-	-	-
INDIANA COUNTY. 1 TO 19 EMPLOYEES.	84	5	-	-	2	11	1	-	11	1	1	3	1	7	1	10	18	3	2	3	1	3
20 TO 99 EMPLOYEES.	56	5	-	-	1	10	-	-	9	1	1	1	1	5	-	4	14	1	1	1	1	2
100 TO 249 EMPLOYEES.	14	-	-	-	-	-	-	-	1	-	-	-	-	2	-	2	3	2	1	-	-	-
250 EMPLOYEES AND OVER.	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JEFFERSON COUNTY. 1 TO 19 EMPLOYEES.	99	8	-	-	4	29	-	-	8	1	1	1	1	8	1	9	15	4	4	-	1	4
20 TO 99 EMPLOYEES.	60	8	-	-	2	29	-	-	6	1	1	-	-	2	1	3	8	3	1	1	1	1
100 TO 249 EMPLOYEES.	24	-	-	-	-	-	-	-	2	-	-	-	-	1	-	6	6	1	1	1	1	2
250 EMPLOYEES AND OVER.	9	-	-	-	1	-	-	-	-	-	-	1	1	3	-	-	-	-	-	-	-	-
JUNIATA COUNTY. 1 TO 19 EMPLOYEES.	52	6	-	-	8	26	-	-	6	-	-	-	-	2	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	38	5	-	-	4	24	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	8	-	-	-	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LACKAWANNA COUNTY. 1 TO 19 EMPLOYEES.	499	45	2	12	163	27	7	8	53	11	-	17	3	11	8	39	28	19	8	6	19	13
20 TO 99 EMPLOYEES.	241	23	1	4	48	18	5	4	41	6	-	7	1	9	6	21	20	6	4	4	12	7
100 TO 249 EMPLOYEES.	200	19	1	2	102	7	2	2	9	4	-	7	1	2	2	10	6	6	4	4	6	7
250 EMPLOYEES AND OVER.	37	3	-	-	12	2	-	-	3	1	-	1	1	-	-	4	2	5	1	1	2	1
250 EMPLOYEES AND OVER.	21	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
LANCASTER COUNTY	770	104	6	17	59	50	18	12	103	18	6	25	19	27	30	72	104	20	21	11	31	17
1 TO 19 EMPLOYEES	430	65	1	5	9	33	10	3	70	12	4	16	7	16	13	31	77	8	11	4	26	9
20 TO 99 EMPLOYEES	250	26	4	6	32	12	9	9	26	4	2	7	7	8	9	26	19	5	6	3	3	4
100 TO 249 EMPLOYEES	72	9	1	3	13	5	3	1	3	2	-	1	2	1	5	9	4	2	3	3	1	2
250 EMPLOYEES AND OVER	48	4	-	3	5	5	1	-	4	2	-	1	3	2	3	6	4	5	1	1	1	2
LAWRENCE COUNTY	169	15	-	2	1	10	-	1	16	5	4	9	1	24	7	33	29	2	3	3	1	3
1 TO 19 EMPLOYEES	101	12	-	1	1	9	-	1	14	3	3	3	-	14	2	16	20	1	-	1	1	2
20 TO 99 EMPLOYEES	46	2	-	1	1	1	-	-	2	1	-	5	-	6	4	12	5	1	1	1	-	-
100 TO 249 EMPLOYEES	12	1	-	1	-	-	-	-	-	-	-	-	1	-	-	3	3	-	1	-	-	-
250 EMPLOYEES AND OVER	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LEBANON COUNTY	195	27	-	9	39	13	1	4	19	4	3	5	6	1	8	16	30	-	2	1	4	3
1 TO 19 EMPLOYEES	89	17	-	2	7	7	1	1	11	1	3	1	1	1	1	4	18	-	-	1	4	3
20 TO 99 EMPLOYEES	75	7	-	3	26	6	-	2	6	2	-	2	1	-	-	9	11	-	1	-	-	-
100 TO 249 EMPLOYEES	17	2	-	4	4	-	-	-	2	-	-	-	2	-	-	2	1	-	-	-	-	-
250 EMPLOYEES AND OVER	14	1	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LEHIGH COUNTY	489	34	-	47	122	6	16	7	50	14	3	8	1	21	11	42	42	17	5	7	17	19
1 TO 19 EMPLOYEES	244	18	-	15	39	5	8	1	40	7	3	3	-	13	5	27	27	8	3	3	12	7
20 TO 99 EMPLOYEES	161	7	-	22	64	1	6	3	6	6	-	4	-	5	5	6	11	1	-	3	3	5
100 TO 249 EMPLOYEES	44	3	-	7	14	-	1	2	1	1	-	1	1	1	1	5	4	3	2	1	2	4
250 EMPLOYEES AND OVER	40	6	-	3	5	-	1	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-
LUZERNE COUNTY	670	63	4	26	222	34	19	16	48	10	2	20	11	30	12	40	48	10	14	7	21	13
1 TO 19 EMPLOYEES	312	42	1	6	53	25	11	5	39	9	1	10	2	19	6	23	28	2	7	5	14	4
20 TO 99 EMPLOYEES	269	16	1	11	148	8	6	9	6	1	-	1	4	7	4	10	16	4	5	2	7	7
100 TO 249 EMPLOYEES	51	4	-	6	17	1	1	1	1	1	1	1	1	-	1	4	1	1	1	-	1	2
250 EMPLOYEES AND OVER	38	1	2	3	4	-	1	1	2	-	-	-	-	-	-	3	3	5	2	1	3	2
LYCOMING COUNTY	202	23	-	9	12	35	7	7	24	5	1	5	3	9	3	18	17	4	6	1	6	7
1 TO 19 EMPLOYEES	107	9	-	2	2	28	2	2	21	2	1	3	-	6	-	5	12	-	-	-	4	4
20 TO 99 EMPLOYEES	50	8	-	4	6	5	3	3	1	1	-	1	1	3	1	8	3	-	-	-	1	2
100 TO 249 EMPLOYEES	30	6	-	2	2	2	2	1	1	1	-	1	1	-	-	4	1	2	2	1	1	1
250 EMPLOYEES AND OVER	15	-	-	1	2	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
MC KEAN COUNTY	94	5	-	-	2	27	2	2	11	2	4	-	1	11	1	6	7	5	-	-	6	2
1 TO 19 EMPLOYEES	55	5	-	-	1	22	1	1	8	2	1	-	-	4	-	2	6	-	-	-	1	4
20 TO 99 EMPLOYEES	25	-	-	-	1	4	1	1	3	-	-	-	-	5	1	2	1	1	-	-	1	2
100 TO 249 EMPLOYEES	6	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MERCER COUNTY	157	26	-	-	3	13	-	2	17	5	1	2	-	16	14	20	19	8	4	2	3	2
1 TO 19 EMPLOYEES	96	18	-	-	3	10	-	2	14	2	1	2	-	12	3	9	14	2	2	1	2	2
20 TO 99 EMPLOYEES	38	7	-	-	3	3	-	-	2	3	-	-	-	4	2	8	3	1	1	1	1	2
100 TO 249 EMPLOYEES	10	1	-	-	-	-	-	-	1	-	-	-	-	-	-	3	1	1	1	1	-	-
250 EMPLOYEES AND OVER	13	-	-	-	-	-	-	-	-	-	-	-	-	-	6	2	1	3	1	-	-	-
MIFFLIN COUNTY	56	11	-	-	5	9	-	-	4	1	-	1	-	5	4	6	4	3	1	-	2	-
1 TO 19 EMPLOYEES	31	10	-	-	3	5	-	-	3	-	-	-	-	5	1	3	2	2	1	-	1	-
20 TO 99 EMPLOYEES	15	1	-	-	3	3	-	-	1	-	-	-	-	7	1	1	1	2	-	-	1	-
100 TO 249 EMPLOYEES	3	-	-	-	2	1	-	-	-	1	-	-	-	-	2	-	1	1	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MONROE COUNTY	97	3	-	8	16	6	2	1	12	5	1	1	1	7	3	11	7	6	-	-	3	4
1 TO 19 EMPLOYEES	49	2	-	3	2	5	-	-	4	2	1	-	-	6	1	4	1	3	3	-	2	3
20 TO 99 EMPLOYEES	34	1	-	4	13	1	1	-	7	1	-	-	-	1	1	4	1	1	-	-	2	-
100 TO 249 EMPLOYEES	12	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MONTGOMERY COUNTY	1458	74	1	36	72	32	27	30	178	56	10	66	4	78	33	190	264	98	19	73	53	64
1 TO 19 EMPLOYEES	904	43	-	19	28	14	14	14	31	31	6	36	2	45	14	115	191	59	8	45	41	23
20 TO 99 EMPLOYEES	361	13	1	10	31	5	9	11	24	15	3	18	2	21	14	57	52	22	6	14	11	22
100 TO 249 EMPLOYEES	117	10	-	7	9	-	1	2	10	6	1	7	-	9	2	14	10	13	4	7	1	10
250 EMPLOYEES AND OVER	76	7	-	-	4	-	3	3	2	6	-	5	-	3	3	4	11	4	4	7	-	9
MONTGOMERY COUNTY	17	-	-	1	1	-	2	-	2	4	1	-	-	-	-	-	3	-	2	1	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	3	-	-	-	-	-	-	1	-	-	1	-	-
20 TO 99 EMPLOYEES	3	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	2	-	2	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977-Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal products; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
NORTHAMPTON COUNTY	427	27	-	18	159	10	8	6	36	14	2	11	-	33	6	33	24	5	4	5	13	13
1 TO 19 EMPLOYEES	180	22	-	28	8	4	4	1	27	10	2	3	-	17	2	17	15	1	3	3	8	6
20 TO 99 EMPLOYEES	173	-	-	105	2	4	3	5	5	2	-	6	-	6	2	12	5	1	1	1	2	1
100 TO 249 EMPLOYEES	47	2	-	18	-	-	-	-	1	1	-	1	-	10	-	2	2	2	-	-	1	6
250 EMPLOYEES AND OVER	27	1	-	2	8	-	-	1	1	1	-	1	-	-	2	2	2	2	1	1	3	-
NORTHUMBERLAND COUNTY	158	33	-	6	29	9	3	4	13	3	2	2	3	11	3	9	5	4	5	3	7	4
1 TO 19 EMPLOYEES	71	20	-	3	4	4	2	9	9	3	1	1	-	6	-	4	3	2	1	3	4	1
20 TO 99 EMPLOYEES	56	7	-	1	17	2	1	3	4	-	1	-	1	5	1	5	2	-	2	-	1	3
100 TO 249 EMPLOYEES	20	3	-	1	6	3	-	1	-	-	-	1	-	-	1	-	-	1	1	-	-	-
250 EMPLOYEES AND OVER	11	3	-	1	2	-	-	-	-	-	-	-	-	-	1	-	-	1	1	-	1	-
PERRY COUNTY	38	7	-	-	12	8	1	-	6	-	-	1	-	-	-	-	1	-	-	-	-	1
1 TO 19 EMPLOYEES	24	6	-	-	1	8	-	-	6	-	-	-	-	-	-	-	1	-	-	-	-	1
20 TO 99 EMPLOYEES	13	1	-	-	10	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHILADELPHIA COUNTY	2816	216	-	146	383	52	109	101	458	111	19	65	30	46	50	303	254	117	43	76	165	72
1 TO 19 EMPLOYEES	1769	114	-	70	186	46	71	44	346	66	9	44	19	29	29	201	183	74	33	49	128	28
20 TO 99 EMPLOYEES	712	50	-	50	139	6	27	36	76	37	7	19	8	11	14	76	49	26	3	24	28	26
100 TO 249 EMPLOYEES	220	29	-	17	40	-	10	17	25	5	3	2	3	4	6	19	14	8	3	3	8	9
250 EMPLOYEES AND OVER	115	23	-	9	18	-	1	4	11	5	3	-	-	2	1	7	8	9	4	-	1	1
PIKE COUNTY	16	1	-	-	2	1	-	-	1	-	-	-	-	-	-	3	5	1	-	-	2	-
1 TO 19 EMPLOYEES	11	1	-	-	-	1	-	-	1	-	-	-	-	-	-	2	5	1	-	-	1	-
20 TO 99 EMPLOYEES	5	-	-	-	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
POTTER COUNTY	44	2	-	-	-	21	4	-	2	2	-	2	1	3	-	1	-	3	-	2	1	-
1 TO 19 EMPLOYEES	32	2	-	-	17	3	1	-	1	1	-	1	-	3	-	1	-	-	-	2	1	-
20 TO 99 EMPLOYEES	9	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCHUYLKILL COUNTY	294	24	2	22	107	18	1	4	14	5	3	6	5	13	8	27	15	6	6	-	6	2
1 TO 19 EMPLOYEES	121	18	-	5	18	12	1	2	10	2	3	1	2	11	2	15	12	5	1	-	3	1
20 TO 99 EMPLOYEES	108	6	1	10	55	3	1	1	3	1	-	2	3	2	4	7	2	1	4	-	2	1
100 TO 249 EMPLOYEES	50	-	-	3	30	3	-	-	1	1	-	1	-	1	-	5	1	-	1	-	1	-
250 EMPLOYEES AND OVER	15	-	-	4	4	-	-	-	-	-	-	3	1	-	-	-	-	-	-	-	-	-
SNYDER COUNTY	66	6	-	3	15	11	3	2	5	-	-	-	1	4	-	3	4	1	6	1	-	1
1 TO 19 EMPLOYEES	29	3	-	-	4	7	1	-	5	-	-	-	-	-	-	1	2	1	3	1	-	1
20 TO 99 EMPLOYEES	27	2	-	-	10	1	2	2	-	-	-	-	-	4	-	1	2	-	2	-	-	-
100 TO 249 EMPLOYEES	8	1	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOMERSET COUNTY	124	13	-	-	11	36	3	-	8	1	1	3	1	11	3	7	16	2	4	2	1	1
1 TO 19 EMPLOYEES	84	9	-	-	32	2	2	-	7	1	1	2	1	9	2	3	11	2	1	1	1	1
20 TO 99 EMPLOYEES	27	3	-	-	6	4	-	-	1	-	-	-	1	1	-	3	5	-	1	1	-	-
100 TO 249 EMPLOYEES	11	1	-	-	4	-	1	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SULLIVAN COUNTY	20	1	-	-	2	12	-	-	2	-	-	-	1	-	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	14	1	-	-	1	9	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	1	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUSQUEHANNA COUNTY	63	4	-	1	12	21	-	-	8	-	-	-	1	2	2	1	4	3	-	1	1	-
1 TO 19 EMPLOYEES	42	3	-	1	4	18	-	-	7	-	-	-	-	1	1	1	3	1	-	-	-	-
20 TO 99 EMPLOYEES	16	1	-	-	7	3	-	-	1	-	-	-	-	-	-	-	1	1	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TIOGA COUNTY	48	6	-	-	2	18	-	-	1	5	-	1	1	2	1	6	4	1	-	-	-	-
1 TO 19 EMPLOYEES	35	5	-	-	1	18	-	-	1	5	-	1	-	1	1	2	2	1	-	-	-	-
20 TO 99 EMPLOYEES	6	1	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UNION COUNTY	35	3	-	3	4	5	4	1	4	-	1	-	-	3	2	1	2	-	-	1	-	1
1 TO 19 EMPLOYEES	19	3	-	-	1	2	2	-	3	-	1	-	-	3	1	-	1	-	-	1	-	1
20 TO 99 EMPLOYEES	13	-	-	-	2	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	11	-	-	-	2	3	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
VENANGO COUNTY	92	3	-	-	1	19	-	-	11	4	5	2	-	5	8	6	20	1	2	-	-	1	4
1 TO 19 EMPLOYEES	55	1	-	-	-	16	-	-	8	2	2	2	-	4	4	4	13	1	2	-	-	1	2
20 TO 99 EMPLOYEES	22	2	-	-	1	3	-	-	3	2	1	2	-	-	1	4	2	-	-	-	-	1	1
100 TO 249 EMPLOYEES	6	-	-	-	-	-	-	-	-	-	1	-	-	-	2	1	1	-	-	-	-	1	1
250 EMPLOYEES AND OVER	9	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	4	-	-	-	-	-	1
WARREN COUNTY	101	6	-	-	-	26	3	1	8	2	3	5	-	6	4	13	9	9	4	4	1	1	1
1 TO 19 EMPLOYEES	62	5	-	-	-	22	1	1	7	1	1	1	-	4	1	5	7	7	4	2	2	1	1
20 TO 99 EMPLOYEES	26	1	-	-	-	4	1	1	1	1	1	2	-	2	1	5	2	1	2	-	-	-	1
100 TO 249 EMPLOYEES	6	-	-	-	-	-	1	-	-	-	-	-	-	-	2	1	2	1	2	-	-	-	1
250 EMPLOYEES AND OVER	7	-	-	-	-	-	-	-	-	-	1	2	-	-	2	1	1	-	-	-	-	-	-
WASHINGTON COUNTY	243	25	-	1	8	21	3	3	20	11	2	9	-	21	20	26	46	4	2	2	6	5	10
1 TO 19 EMPLOYEES	134	14	-	1	4	15	2	1	16	5	1	4	-	12	5	26	2	2	2	5	5	6	6
20 TO 99 EMPLOYEES	72	11	-	2	6	2	2	1	3	4	1	4	-	5	4	12	15	-	-	1	-	-	2
100 TO 249 EMPLOYEES	23	-	-	-	-	-	-	-	1	1	-	-	-	4	4	1	1	2	-	-	-	-	2
250 EMPLOYEES AND OVER	14	-	-	1	-	-	-	-	-	-	-	-	-	4	4	4	1	1	2	-	-	-	-
WAYNE COUNTY	71	6	-	3	12	20	2	-	7	1	-	1	-	6	-	1	2	1	-	-	-	4	4
1 TO 19 EMPLOYEES	51	6	-	3	4	18	1	-	5	1	-	-	-	5	-	1	2	1	-	-	-	4	4
20 TO 99 EMPLOYEES	12	-	-	2	4	2	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	2
100 TO 249 EMPLOYEES	6	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WESTMORELAND COUNTY	497	37	-	-	15	35	9	7	40	7	4	20	-	45	39	62	119	26	11	8	11	2	2
1 TO 19 EMPLOYEES	312	27	-	-	7	32	6	2	28	3	4	10	-	19	13	42	83	13	8	5	10	1	1
20 TO 99 EMPLOYEES	117	8	-	-	4	3	2	2	9	2	-	7	-	17	9	16	26	6	2	2	2	1	1
100 TO 249 EMPLOYEES	40	2	-	-	4	-	-	4	2	2	-	1	-	3	4	3	8	5	1	1	-	-	1
250 EMPLOYEES AND OVER	28	-	-	-	-	-	-	-	1	-	-	1	-	6	13	1	2	2	1	1	-	-	1
WYOMING COUNTY	47	5	-	1	9	10	-	2	4	-	2	1	1	1	-	3	3	1	-	1	1	2	2
1 TO 19 EMPLOYEES	32	4	-	1	2	10	-	-	4	-	-	1	-	1	-	2	3	1	-	1	1	1	1
20 TO 99 EMPLOYEES	12	-	-	7	-	-	-	-	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YORK COUNTY	605	72	10	17	43	41	28	25	57	9	3	15	10	27	23	52	103	23	16	10	9	12	12
1 TO 19 EMPLOYEES	350	44	6	5	11	27	13	9	35	4	2	11	5	18	8	26	85	5	9	8	6	5	5
20 TO 99 EMPLOYEES	173	19	3	5	19	12	9	12	12	5	1	2	4	7	7	18	27	9	4	1	1	2	4
100 TO 249 EMPLOYEES	67	-	-	8	10	2	2	2	6	-	1	2	1	2	4	4	6	4	3	1	1	2	2
250 EMPLOYEES AND OVER	45	1	1	1	3	-	-	1	4	-	-	1	3	1	6	4	6	4	3	1	1	1	1

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

— Represents zero.

Only those counties and size classes that include data for manufacturing establishments are shown.

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Rhode Island

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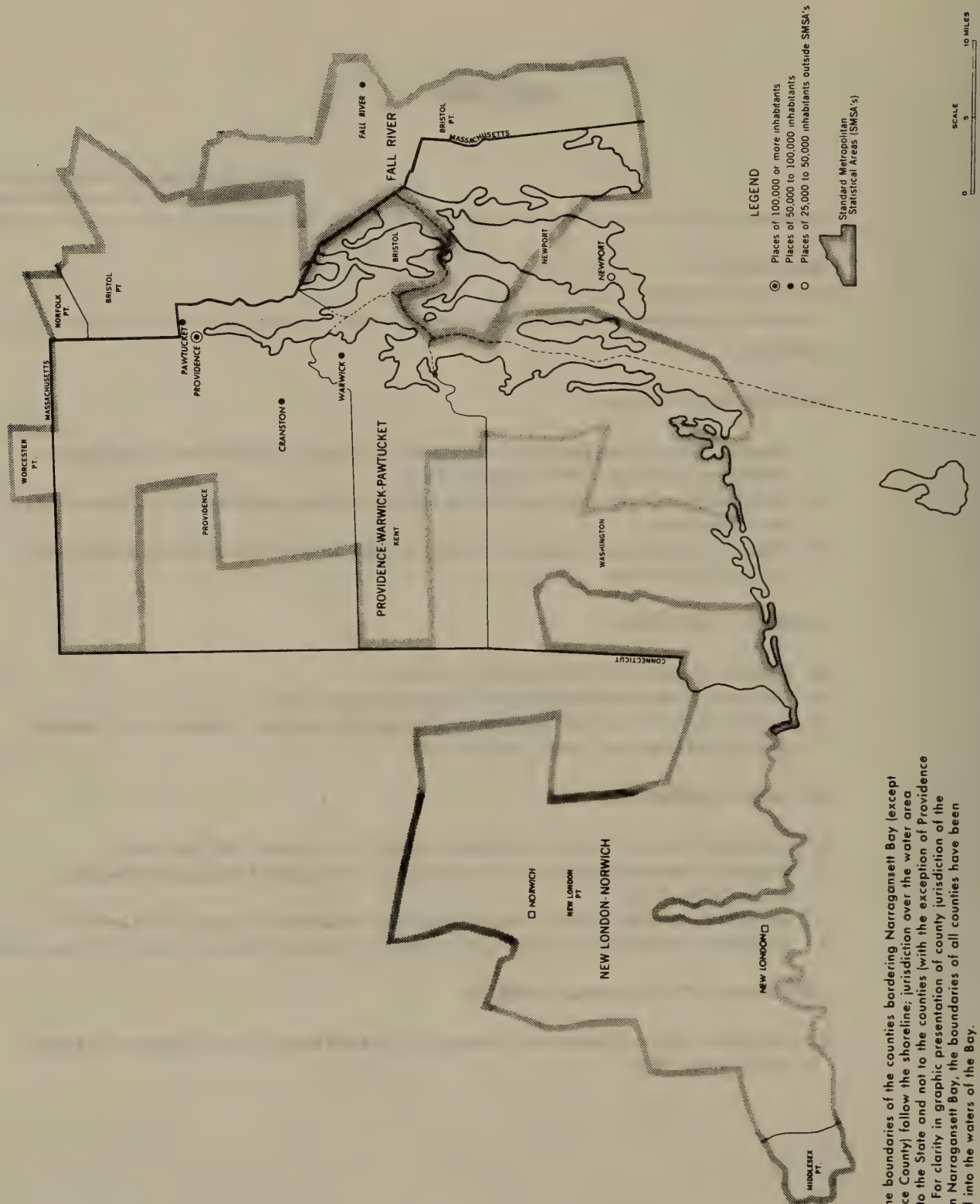
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RHODE ISLAND



NOTE: The boundaries of the counties bordering Narragansett Bay (except Providence County) follow the shoreline; jurisdiction over the water area belongs to the State and not to the counties (with the exception of Providence County). For clarity in graphic presentation of county jurisdiction of the islands in Narragansett Bay, the boundaries of all counties have been extended into the waters of the Bay.

SUMMARY OF FINDINGS

In 1977, 125.0 thousand persons were employed in Rhode Island's manufacturing establishments. This figure represented an increase of 6 percent from the 1972 figure of 118.1 thousand workers.

The total value added by manufacture for the State amounted to \$2,737 million in 1977, an increase of approximately 55 percent from the 1972 figure of \$1,764 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were miscellaneous manufacturing industries (mainly comprised of costume and precious jewelry) fabricated metal products; textile mill products; and machinery, except electrical. They accounted for approximately 56 percent of the State's 1977 employment. The order has shifted from 1972 when miscellaneous manufacturing industries; textile mill products; primary metal industries; and machinery, except elec-

trical accounted for approximately 58 percent of the State's employment.

The most important counties in the State ranked by employment were Providence, Kent, Washington, and Bristol. They accounted for approximately 97 percent of the State's 1977 manufacturing employment. The order has shifted from 1972 when Providence, Kent, Bristol, and Washington accounted for approximately 97 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 8 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Rhode Island:						
1977.....	125.0	1,326.5	123.6	1,296.8	1.4	29.7
1972.....	118.1	888.2	116.5	865.6	1.6	22.6
1967.....	122.3	700.4	121.0	687.4	1.3	13.0
1963.....	113.9	533.4	112.6	523.2	1.3	10.2
STANDARD METROPOLITAN STATISTICAL AREAS						
Fall River, Mass.-R.I.:						
1977.....	22.3	205.4	22.2	204.5	.1	.9
1972.....	25.5	175.1	(D)	(D)	(D)	(D)
1967.....	21.3	93.3	(D)	(D)	(D)	(D)
1963.....	23.4	88.0	(D)	(D)	(D)	(D)
New London-Norwich, Conn.-R.I.:						
1977.....	41.8	575.8	41.6	573.6	.2	2.2
1972.....	29.2	276.7	29.1	275.6	.1	.9
Providence-Pawtucket-Warwick, R.I.-Mass.:						
1977.....	140.0	1,494.4	138.5	1,463.6	1.5	30.8
1972.....	131.9	994.4	130.3	971.8	1.6	22.6
1967.....	138.0	789.8	136.7	776.8	1.3	13.0
1963.....	125.9	596.4	124.6	586.2	1.3	10.1

(D) Withheld to avoid disclosing operations of individual companies.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city and town totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers							Comparative indexes and U.S. employment			
														United States	
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	Index of State em- ploy- ment change (1977= 100)	Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)
RHODE ISLAND															
1977 CENSUS.	3 107	945	125.0	1 326.5	94.7	177.5	825.2	2 736.6	2 673.5	5 364.6	145.6	.64	100	100	19 596.9
1976 ASM....	(NA)	(NA)	115.1	1 150.0	88.9	166.0	719.8	2 294.8	2 279.3	4 532.7	143.4	.61	92	96	18 753.0
1975 ASM....	(NA)	(NA)	107.3	999.7	81.5	152.7	615.9	1 977.3	1 889.1	3 924.0	119.5	.59	86	94	18 302.2
1974 ASM....	(NA)	(NA)	121.0	1 043.3	94.2	177.0	661.2	2 182.9	1 998.4	4 081.1	119.5	.61	97	102	19 844.8
1973 ASM....	(NA)	(NA)	122.2	976.8	94.7	180.2	620.2	1 924.2	1 731.2	3 629.4	88.7	.61	98	102	19 897.9
1972 CENSUS.	2 756	904	118.1	888.2	91.4	174.2	565.9	1 764.4	1 479.3	3 218.6	100.5	.62	94	98	19 028.7
1971 ASM....	(NA)	(NA)	110.6	757.8	84.5	162.5	486.9	1 468.9	1 248.4	2 715.0	80.0	.60	88	94	18 363.1
1970 ASM....	(NA)	(NA)	118.7	770.9	90.9	176.4	499.0	1 402.4	1 267.1	2 680.3	72.7	.62	95	99	19 217.2
1969 ASM....	(NA)	(NA)	125.1	762.5	99.3	191.2	503.4	1 472.6	1 299.9	2 775.2	80.9	.62	100	103	20 035.5
1968 ASM....	(NA)	(NA)	124.9	746.0	98.2	193.6	488.1	1 443.6	1 288.4	2 717.0	91.5	.64	100	100	19 527.6
1967 CENSUS.	2 703	922	122.3	700.4	96.6	188.5	466.9	1 350.9	1 228.1	2 560.5	74.8	.63	98	99	19 323.2
1966 ASM....	(NA)	(NA)	127.1	682.9	100.4	200.5	464.6	1 354.9	1 254.1	2 580.7	75.0	.67	102	98	19 024.5
1965 ASM....	(NA)	(NA)	121.5	612.2	95.9	191.2	417.0	1 207.4	1 105.0	2 271.0	54.2	.67	97	92	18 010.2
1964 ASM....	(NA)	(NA)	113.7	557.7	89.3	177.8	376.5	1 006.8	988.2	2 002.7	47.2	.66	91	89	17 268.5
1963 CENSUS.	2 710	868	113.9	533.4	90.0	177.2	365.3	958.6	(NA)	(NA)	43.1	.67	91	87	16 958.4
NEW LONDON-NORWICH, CONN.-R.I., SMSA															
1977 CENSUS.	286	108	41.8	575.8	26.6	51.3	305.5	1 081.4	780.7	1 847.4	49.3	.21	100	100	19 596.9
1976 ASM....	(NA)	(NA)	38.8	507.0	24.0	46.0	264.0	943.8	698.7	1 640.9	59.2	.21	93	96	18 753.0
1975 ASM....	(NA)	(NA)	37.3	399.0	22.3	36.9	187.8	749.2	591.9	1 330.1	110.0	.20	89	94	18 302.2
1974 ASM....	(NA)	(NA)	35.9	396.9	22.1	43.9	204.8	651.2	567.8	1 190.2	81.4	.18	86	102	19 844.8
1973 ASM....	(NA)	(NA)	36.5	319.3	19.9	40.2	166.7	523.5	420.7	944.9	50.8	.18	87	102	19 897.9
1972 CENSUS.	252	107	29.2	276.7	18.6	37.5	144.5	457.4	335.1	784.4	36.1	.15	70	98	19 028.7
PROVIDENCE-WARWICK-PAWTUCKET, R.I.-MASS., SMSA															
1977 CENSUS.	3 320	1 026	140.0	1 494.4	107.3	202.2	947.1	3 040.4	3 161.2	6 158.6	173.3	.71	100	100	19 596.9
1976 ASM....	(NA)	(NA)	125.5	1 261.3	97.9	184.2	805.4	2 481.3	2 589.1	5 032.8	144.8	.67	90	96	18 753.0
1975 ASM....	(NA)	(NA)	117.1	1 095.8	89.8	168.3	682.8	2 168.6	2 188.6	4 415.3	122.2	.64	84	94	18 302.2
1974 ASM....	(NA)	(NA)	134.7	1 163.4	106.2	199.5	753.5	2 404.4	2 385.9	4 686.7	124.4	.68	96	102	19 844.8
1973 ASM....	(NA)	(NA)	138.2	1 097.1	107.5	205.8	697.4	2 204.6	2 044.9	4 221.9	98.9	.69	99	102	19 897.9
1972 CENSUS.	2 991	997	131.9	994.4	102.4	197.7	632.9	1 959.9	1 713.3	3 633.4	108.0	.69	94	98	19 028.7
1971 ASM....	(NA)	(NA)	126.3	867.1	96.3	185.4	550.9	1 672.5	1 432.0	3 093.5	86.7	.69	90	94	18 363.1
1970 ASM....	(NA)	(NA)	137.0	885.5	105.0	203.2	570.8	1 624.7	1 439.0	3 072.3	85.6	.71	98	99	19 217.2
1969 ASM....	(NA)	(NA)	141.0	861.2	112.9	218.4	574.4	1 681.6	1 461.4	3 138.3	91.6	.70	101	103	20 035.5
1968 ASM....	(NA)	(NA)	139.6	834.4	111.6	216.2	570.4	1 607.2	1 437.0	3 027.1	101.7	.71	100	100	19 527.6
1967 CENSUS.	2 925	1 024	138.0	789.9	108.8	212.7	526.8	1 533.9	1 377.4	2 885.0	89.2	.71	99	99	19 323.2
1966 ASM....	(NA)	(NA)	140.3	754.1	110.9	221.5	510.2	1 534.2	1 379.8	2 875.6	89.3	.74	100	98	19 024.5
1965 ASM....	(NA)	(NA)	133.9	676.3	105.6	210.9	458.3	1 356.9	1 207.6	2 522.5	61.5	.74	96	92	18 010.2
1964 ASM....	(NA)	(NA)	125.7	623.6	98.7	197.2	419.9	1 145.8	1 078.7	2 229.1	53.5	.73	90	89	17 268.5
1963 CENSUS.	2 918	951	125.9	596.4	99.2	197.2	406.7	1 075.2	(NA)	(NA)	47.8	.74	90	87	16 958.4

(NA) Not available.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
RHODE ISLAND									
1977 CENSUS.....	10 608	76	1 875	4.65	50	75	21 885	48	15.42
1976 ASM.....	9 991	77	1 867	4.34	50	76	19 937	50	13.82
1975 ASM.....	9 317	76	1 874	4.03	48	74	18 428	51	12.95
1974 ASM.....	8 622	78	1 879	3.74	49	75	18 040	48	12.33
1973 ASM.....	7 993	77	1 903	3.44	48	75	15 746	51	10.68
1972 CENSUS.....	7 521	77	1 906	3.25	46	74	14 940	50	10.13
1971 ASM.....	6 852	76	1 923	3.00	46	74	13 281	52	9.04
1970 ASM.....	6 495	77	1 941	2.83	47	76	11 815	55	7.95
1969 ASM.....	6 095	79	1 925	2.63	47	74	11 771	52	7.70
1968 ASM.....	5 973	79	1 971	2.52	47	75	11 558	52	7.46
1967 CENSUS.....	5 727	79	1 951	2.48	48	75	11 046	52	7.17
1966 ASM.....	5 373	79	1 997	2.32	49	75	10 660	50	6.76
1965 ASM.....	5 039	79	1 994	2.18	49	76	9 937	51	6.31
1964 ASM.....	4 905	79	1 991	2.12	49	77	8 855	55	5.66
1963 CENSUS.....	4 683	79	1 969	2.06	(NA)	(NA)	8 416	56	5.41
NEW LONDON-NORWICH, CONN.-R.I., SMSA									
1977 CENSUS.....	13 785	64	1 929	5.96	42	73	25 888	53	21.09
1976 ASM.....	13 067	62	1 917	5.74	43	73	24 325	54	20.52
1975 ASM.....	10 697	60	1 655	5.09	45	74	20 086	53	20.30
1974 ASM.....	11 056	62	1 986	4.67	48	81	18 139	61	14.83
1973 ASM.....	8 748	55	2 020	4.15	45	78	14 342	61	13.02
1972 CENSUS.....	9 476	64	2 016	3.85	43	78	15 664	60	12.20
PROVIDENCE-WARWICK-PAWTUCKET, R.I.-MASS., SMSA									
1977 CENSUS.....	10 675	77	1 884	4.68	51	76	21 718	49	15.04
1976 ASM.....	10 050	78	1 882	4.37	51	77	19 771	51	13.47
1975 ASM.....	9 358	77	1 874	4.06	50	74	18 519	51	12.89
1974 ASM.....	8 637	79	1 879	3.78	51	76	17 850	48	12.05
1973 ASM.....	7 938	78	1 914	3.39	48	74	15 952	50	10.71
1972 CENSUS.....	7 539	78	1 931	3.20	47	75	14 859	51	9.91
1971 ASM.....	6 865	76	1 925	2.97	46	74	13 242	52	9.02
1970 ASM.....	6 464	77	1 935	2.81	47	76	11 859	55	8.00
1969 ASM.....	6 108	80	1 934	2.63	47	74	11 926	51	7.70
1968 ASM.....	5 977	80	1 937	2.64	47	75	11 513	52	7.43
1967 CENSUS.....	5 724	79	1 955	2.48	48	75	11 115	51	7.21
1966 ASM.....	5 375	79	1 997	2.30	48	74	10 935	49	6.93
1965 ASM.....	5 051	79	1 997	2.17	48	75	10 134	50	6.43
1964 ASM.....	4 961	79	1 998	2.13	48	76	9 115	54	5.81
1963 CENSUS.....	4 737	79	1 988	2.06	(NA)	(NA)	8 540	55	5.45

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹ -----	number -----	3 107	2 756
With 1 to 19 employees -----	do -----	2 162	1 852
With 20 to 99 employees -----	do -----	688	644
With 100 employees or more -----	do -----	257	260
All employees, average for year ¹ -----	1,000 -----	125.0	118.1
Payroll for year, all employees ¹ -----	mil. dollars --	1 326.5	888.2
Production workers:			
Average for year -----	1,000 -----	94.7	91.4
March -----	do -----	92.4	87.9
May -----	do -----	92.9	89.4
August -----	do -----	95.0	92.3
November -----	do -----	98.2	96.1
Hours -----	millions -----	177.5	174.2
January to March -----	do -----	43.1	42.4
April to June -----	do -----	45.4	44.1
July to September -----	do -----	42.6	41.7
October to December -----	do -----	46.5	46.1
Wages -----	mil. dollars --	825.2	565.9
Cost of materials, etc. ² -----	do -----	2 673.5	1 479.3
Materials, parts, containers, etc., consumed -----	do -----	2 334.1	1 275.8
Resales -----	do -----	142.4	94.6
Fuels consumed -----	do -----	45.4	19.9
Purchased electric energy -----	do -----	54.7	24.8
Contract work -----	do -----	96.9	64.2
Value of shipments, including resales ² -----	do -----	5 364.6	3 218.6
Value of resales -----	do -----	185.9	125.5
Value added by manufacture -----	do -----	2 736.6	1 764.4
Manufacturers' inventories:			
Beginning of year -----	do -----	819.1	465.7
Finished products -----	do -----	305.0	196.0
Work in process -----	do -----	221.1	128.4
Materials, supplies, fuel, etc. -----	do -----	293.0	141.2
End of year -----	do -----	899.8	511.0
Finished products -----	do -----	332.6	202.3
Work in process -----	do -----	239.4	143.1
Materials, supplies, fuel, etc. -----	do -----	327.8	165.6
Capital expenditures for plant and equipment -----	do -----	158.2	105.8
New capital expenditures -----	do -----	145.6	100.5
New buildings and other structures -----	do -----	31.6	20.1
New machinery and equipment -----	do -----	114.0	80.3
Used capital expenditures -----	do -----	12.6	5.3

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
¹Including central administrative offices and auxiliaries (for definition, see appendix B).
²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	39.9	4
Beginning of year.....	1,347.5	1	Buildings and other structures.....	24.0	6
New capital expenditures.....	166.7	4	Machinery and equipment.....	15.9	6
Used capital expenditures.....	13.7	13			
Retirements.....	(61.0)	17	Depreciation charges during 1977:		
End of year.....	1,466.9	1	Total.....	104.8	9
Buildings and other structures:			Buildings and other structures.....	16.5	12
Beginning of year.....	367.6	4	Machinery and equipment.....	88.3	8
New capital expenditures.....	(41.5)	25			
Used capital expenditures.....	(5.9)	16	Supplemental labor costs:		
Retirements.....	(10.3)	18	Total.....	218.8	2
End of year.....	404.6	5	Legal costs.....	107.8	2
Machinery and equipment:			Voluntary costs.....	111.1	3
Beginning of year.....	980.0	2			
New capital expenditures.....	125.3	9	Purchased services:		
Automobiles, trucks, etc., for highway use...	4.1	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	3.0	(NA)	Buildings and other structures.....	7.6	13
All other.....	95.7	(NA)	Response coverage ratio (percent).....	64	(X)
New machinery and equipment, n.s.k.....	22.5	(NA)	Machinery.....	26.6	14
Used capital expenditures.....	(7.8)	15	Response coverage ratio (percent).....	66	(X)
Retirements.....	(50.7)	20	Cost of purchased communication services.....	14.9	13
End of year.....	1,062.4	1	Response coverage ratio (percent).....	65	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind.
(X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities and Towns: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972		
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mill- ions)	Wages (million dollars)						
Rhode Island-----	-	3 107	945	125.0	1 326.5	94.7	177.5	825.2	2 736.6	2 673.5	5 364.6	145.8	118.1	1 764.4
STANDARD METROPOLITAN STATISTICAL AREAS														
Fall River, Mass.-R.I.-----	-	310	166	22.3	205.4	17.8	32.7	138.0	400.4	341.8	738.6	13.8	25.5	338.6
Portion in Massachusetts-----	-	286	158	19.6	165.3	16.5	30.0	123.2	324.6	288.0	608.3	11.5	22.7	283.5
Portion in Rhode Island-----	-	24	8	2.7	40.2	1.3	2.7	14.8	75.7	53.8	130.3	2.3	2.8	55.1
New London-Norwich, Conn.-R.I.-----	-	286	108	41.8	575.8	26.6	51.3	305.5	1 081.4	780.7	1 847.4	49.3	29.2	457.4
Portion in Rhode Island-----	-	45	17	1.8	18.4	1.3	2.6	12.6	38.9	36.5	73.5	2.3	2.3	22.8
Portion in Connecticut-----	-	241	91	40.0	557.5	25.2	48.7	292.8	1 042.5	744.2	1 773.9	47.0	27.0	434.6
Providence-Warwick-Pawtucket, R.I.-Mass.-----	-	3 320	1 026	140.0	1 494.4	107.3	202.2	947.1	3 040.4	3 161.2	6 158.6	173.3	131.9	1 959.9
Portion in Massachusetts-----	-	349	128	21.6	249.8	17.0	33.1	165.8	467.1	616.4	1 083.9	35.4	20.4	297.4
Portion in Rhode Island-----	-	2 971	898	118.4	1 244.6	90.3	169.1	781.3	2 573.4	2 544.8	5 074.7	137.9	111.5	1 662.5
COUNTIES														
Bristol-----	-	89	35	4.7	44.7	3.7	7.0	28.5	82.6	86.7	176.1	2.9	5.5	78.3
Kent-----	-	361	109	15.5	176.9	11.5	21.2	106.8	372.0	340.3	696.8	14.0	12.9	190.7
Newport-----	-	64	19	3.7	49.8	2.1	4.0	21.6	99.0	70.6	170.5	4.1	3.5	68.4
Providence-----	-	2 485	745	91.1	931.0	69.6	130.0	586.2	1 959.8	1 980.2	3 905.4	114.9	91.0	1 362.8
Washington-----	-	108	37	10.1	124.2	7.8	15.3	82.1	223.3	195.8	415.8	9.7	5.1	64.2
CITIES AND TOWNS														
Bristol town-----	-	42	18	1.8	19.0	1.2	2.5	11.9	33.5	26.4	59.8	1.2	2.7	32.8
Central Falls-----	-	71	32	3.9	39.1	3.1	5.8	27.2	93.3	69.9	161.7	4.8	3.7	56.1
Coventry town-----	-	54	10	1.7	19.6	1.3	2.3	12.2	37.9	51.6	87.2	3.3	2.1	28.4
Cranston-----	E1	203	59	6.6	76.0	4.6	8.7	42.8	137.1	165.6	299.2	12.2	6.5	112.0
Cumberland town-----	E1	40	22	3.0	31.2	2.5	4.9	23.2	58.9	82.6	142.2	7.5	2.9	37.9
East Greenwich town-----	E1	33	7	2.7	37.7	1.9	3.3	23.5	66.2	54.1	119.7	1.5	1.5	26.1
East Providence-----	-	136	48	8.7	80.9	5.9	10.7	52.4	169.2	165.9	325.9	8.2	7.1	99.7
Johnston town-----	E2	147	23	1.8	15.2	1.6	2.7	10.3	29.8	31.5	61.1	1.3	0.9	10.6
Lincoln town-----	-	71	31	3.7	40.4	3.0	5.7	27.1	103.3	111.5	210.0	17.6	2.7	47.8
North Kingstown town-----	-	22	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
North Providence town-----	E1	99	21	2.2	20.2	1.9	3.7	15.0	41.3	30.2	70.5	1.6	4.8	64.6
North Smithfield town-----	-	26	5	1.9	17.3	1.4	2.6	9.1	66.1	30.8	95.8	(D)	2.7	77.2
Pawtucket-----	-	277	122	16.4	162.9	12.9	24.5	106.8	380.4	509.8	882.2	14.5	16.8	240.0
Providence-----	-	1 177	297	35.5	375.3	26.6	49.2	221.4	736.2	637.4	1 369.6	32.5	35.0	526.5
Smithfield town-----	E1	70	17	1.5	18.6	1.2	2.2	11.9	40.9	18.9	59.4	1.8	1.3	22.9
Warren town-----	-	36	13	2.6	22.3	2.2	3.9	14.7	42.2	56.4	105.7	1.6	2.3	39.4
Warwick-----	-	194	60	7.8	87.3	5.7	10.9	51.0	207.8	172.1	368.5	7.1	6.6	100.1
Westerly town-----	-	27	11	1.3	14.0	1.0	2.0	9.7	25.6	29.4	54.2	1.8	(D)	(D)
West Warwick town-----	-	75	30	3.1	29.0	2.3	4.4	18.3	55.7	56.9	111.7	1.8	2.6	34.7
Woonsocket-----	E1	126	56	5.2	46.9	4.5	8.3	34.5	91.9	96.5	185.7	5.4	5.8	59.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	All Industries -----	-	3 107	945	125.0	1 326.5	94.7	177.5	825.2	2 736.6	2 673.5	5 364.6	145.8	118.1	1 764.4
20	Food and kindred products -----	E1	154	37	3.7	41.8	2.4	4.3	22.4	86.1	183.2	268.5	4.2	5.0	104.6
202	Dairy products -----	E5	26	8	0.5	4.9	0.3	0.5	2.2	7.8	39.3	47.1	0.8	1.0	17.5
2026	Fluid milk -----	E6	16	6	0.4	3.8	0.2	0.4	1.6	4.3	30.6	34.9	0.7	0.9	15.7
205	Bakery products -----	-	42	8	1.1	13.5	0.5	0.7	4.0	26.1	27.3	53.4	0.6	1.4	45.2
2051	Bread, cake, and related products -----	-	41	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
206	Sugar and confectionery products -----	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2065	Confectionery products -----	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
207	Fats and oils -----	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.2
2079	Shortening and cooking oils -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
208	Beverages -----	E1	19	5	0.7	9.2	0.5	0.8	6.2	19.3	39.9	59.0	0.6	0.9	24.0
2082	Malt beverages -----	E1	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2086	Bottled and canned soft drinks -----	-	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
209	Miscellaneous foods and kindred products -----	E1	30	8	0.5	4.1	0.4	0.7	2.8	10.5	23.2	33.6	0.8	BB	(D)
2092	Fresh or frozen packaged fish -----	-	9	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2099	Food preparations, n.e.c. -----	E2	9	2	0.2	1.4	0.1	0.2	0.8	3.5	5.5	9.1	0.2	(NA)	(NA)
22	Textile mill products -----	-	200	120	12.8	119.7	10.8	21.7	87.5	215.9	252.8	467.7	14.7	16.9	188.7
2211	Weaving mills, cotton -----	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2221	Weaving mills, manmade fiber and silk -----	E1	15	10	0.7	7.0	0.6	1.3	5.8	11.3	14.2	25.9	1.4	1.4	20.1
2231	Weaving and finishing mills, wool -----	E1	17	10	1.0	9.8	1.0	2.3	8.8	20.8	19.2	40.3	0.6	0.6	6.1
2241	Narrow fabric mills -----	-	42	28	3.4	28.8	2.9	5.6	21.2	49.5	55.6	105.4	2.7	4.3	46.6
225	Knitting mills -----	-	14	10	1.4	13.3	1.2	2.3	10.3	23.1	45.6	67.7	2.6	2.5	30.5
2257	Circular knit fabric mills -----	-	7	3	0.8	6.9	0.7	1.3	5.5	9.5	21.4	31.0	(D)	2.0	24.0
2258	Warp knit fabric mills -----	-	7	7	0.6	6.4	0.5	1.0	4.8	13.5	24.2	36.7	(D)	CC	(D)
226	Textile finishing, except wool -----	E1	30	20	2.3	24.4	1.7	3.2	15.6	34.7	30.3	65.4	2.5	2.9	32.2
2261	Finishing plants, cotton -----	E2	15	8	0.8	9.6	0.5	0.9	4.3	9.2	7.0	16.2	0.7	BB	(D)
2262	Finishing plants, synthetics -----	-	8	7	1.1	12.2	0.9	1.8	9.2	19.7	15.0	35.0	1.6	1.6	18.3
2269	Finishing plants, n.e.c. -----	E2	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
227	Floor covering mills -----	E3	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2279	Carpets and rugs, n.e.c. -----	E3	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
228	Yarn and thread mills -----	-	19	11	1.5	13.9	1.3	2.8	10.2	31.2	41.2	72.2	1.4	1.8	16.3
2282	Throwing and winding mills -----	-	10	5	0.8	7.9	0.7	1.5	5.6	20.2	31.5	51.7	(D)	BB	(D)
2283	Wool yarn mills -----	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	6.4
2284	Thread mills -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
229	Miscellaneous textile goods -----	-	55	25	2.2	19.7	1.8	3.6	13.4	40.8	40.2	80.1	2.5	2.9	34.4
2292	Lace goods -----	-	22	6	0.5	4.5	0.5	1.0	3.5	7.2	2.8	10.1	0.2	CC	(D)
2293	Paddings and upholstery filling -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2294	Processed textile waste -----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2295	Coated fabrics, not rubberized -----	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2298	Cordage and twine -----	-	9	5	0.5	4.3	0.5	0.8	3.0	10.2	6.1	16.0	0.2	0.3	2.8
2299	Textile goods, n.e.c. -----	E4	14	8	0.4	2.7	0.4	0.7	1.9	5.1	3.9	8.8	1.1	0.9	9.0
23	Apparel and other textile products -----	E2	69	33	3.1	23.4	2.7	4.6	17.2	52.6	40.1	91.3	(D)	3.4	35.3
2311	Men's and boys' suits and coats -----	E7	3	3	0.3	1.8	0.2	0.4	1.3	2.6	3.1	5.8	(D)	BB	(D)
232	Men's and boys' furnishings -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2321	Men's and boys' shirts and nightwear -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
233	Women's and misses' outerwear -----	E4	22	15	0.9	6.1	0.8	1.3	5.0	11.9	3.3	15.2	(D)	1.0	5.0
2335	Women's and misses' dresses -----	E4	15	9	0.5	3.0	0.5	0.8	2.5	7.7	2.0	9.7	(D)	CC	(D)
2337	Women's and misses' suits and coats -----	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c. -----	E6	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
236	Children's outerwear -----	E1	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2361	Children's dresses and blouses -----	E1	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
238	Miscellaneous apparel and accessories -----	E2	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.2
2384	Robes and dressing gowns -----	E0	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	-	31	7	0.6	5.8	0.5	0.9	3.8	15.6	11.6	26.7	(D)	0.5	5.2
2395	Plating and stitching -----	-	5	3	0.2	1.9	0.1	0.2	1.2	7.9	3.0	10.6	(D)	(NA)	(NA)
2399	Fabricated textile products, n.e.c. -----	-	7	3	0.2	1.7	0.2	0.3	1.2	3.3	3.8	6.9	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
24	Lumber and wood products -----	E1	52	7	0.5	5.1	0.4	0.8	3.8	10.3	6.8	16.8	(D)	0.4	5.1
243	Millwork, plywood, and structural members -----	E1	16	2	0.2	2.6	0.2	0.3	2.0	3.9	2.8	6.4	(D)	0.2	2.6
249	Miscellaneous wood products --	E2	17	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2499	Wood products, n.e.c. -----	E2	17	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
25	Furniture and fixtures -	-	36	8	0.9	8.5	0.7	1.2	5.7	18.2	17.0	35.1	(D)	0.7	10.7
254	Partitions and fixtures -----	E2	15	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	10.6
259	Miscellaneous furniture and fixtures -----	-	6	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2591	Drapery hardware and blinds and shades -----	-	5	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
26	Paper and allied products -----	-	57	30	2.5	27.1	2.0	4.0	18.4	56.4	63.4	119.1	2.9	2.7	33.8
264	Miscellaneous converted paper products -----	E1	26	11	0.8	9.6	0.6	1.2	6.1	23.2	28.4	50.2	0.9	0.8	11.8
2641	Paper coating and glazing ---	E1	9	4	0.4	4.5	0.3	0.6	2.8	7.5	16.7	23.8	0.2	0.3	5.6
2643	Bags, except textile bags -----	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.9
2649	Converted paper products, n.e.c. -----	-	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
265	Paperboard containers and boxes -----	-	30	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2652	Setup paperboard boxes -----	E1	14	10	0.6	4.1	0.5	0.9	2.8	7.1	4.1	11.0	0.4	0.7	5.4
2653	Corrugated and solid fiber boxes -----	-	8	3	0.3	3.2	0.2	0.4	1.9	6.6	8.9	16.1	0.2	AA	(D)
2654	Sanitary food containers -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2655	Fiber cans, drums, and similar products -----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2661	Building paper and board mills -	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
27	Printing and publishing -----	-	208	45	4.9	66.7	3.2	6.0	38.8	127.3	75.4	202.1	6.9	5.4	101.7
2711	Newspapers -----	-	25	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	36.2
275	Commercial printing -----	E1	135	23	2.1	27.9	1.6	3.2	19.8	49.1	46.0	95.2	4.1	1.7	30.7
2751	Commercial printing, letterpress -----	E3	73	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2752	Commercial printing, lithographic -----	E1	55	14	1.0	12.6	0.8	1.5	8.2	26.2	17.2	43.3	1.0	0.6	12.4
2754	Commercial printing, gravure -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2761	Manifold business forms -----	-	5	5	0.2	2.6	0.2	0.3	1.6	4.5	4.7	9.2	0.2	0.2	3.4
2771	Greeting card publishing -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
278	Blankbooks and bookbinding --	-	7	2	0.2	2.0	0.2	0.3	1.4	2.5	2.6	5.1	0.1	AA	(D)
2782	Blankbooks and looseleaf binders -----	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
279	Printing trade services -----	-	17	4	0.3	4.4	0.2	0.4	2.9	7.4	1.7	9.0	0.3	0.2	4.9
2795	Lithographic platemaking services -----	-	5	2	0.2	2.9	0.1	0.2	1.9	4.8	1.2	6.0	0.2	(NA)	(NA)
28	Chemicals and allied products -----	-	67	19	3.0	39.6	2.1	3.9	20.3	75.8	144.1	217.4	11.3	2.8	48.6
282	Plastics materials and synthetics -----	E2	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2824	Organic fibers, noncellulosic -	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
283	Drugs -----	-	7	1	0.2	2.5	0.1	0.3	1.2	5.0	2.9	8.0	0.4	(NA)	(NA)
2831	Biological products -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
284	Soaps, cleaners, and toilet goods -----	-	15	6	0.8	8.3	0.7	1.4	5.5	16.1	37.3	53.0	2.3	0.9	14.6
2841	Soap and other detergents --	E1	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2842	Polishes and sanitation goods -----	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2843	Surface active agents -----	-	6	4	0.2	2.7	0.2	0.4	1.2	6.0	15.1	20.7	(D)	0.2	4.7
286	Industrial organic chemicals ---	-	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2865	Cyclic crudes and intermediates -----	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2869	Industrial organic chemicals, n.e.c. -----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
289	Miscellaneous chemical products -----	-	18	1	0.2	3.0	0.1	0.3	1.3	9.8	28.8	38.5	1.0	(NA)	(NA)
2899	Chemical preparations, n.e.c. -----	-	15	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972		
			E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² , (1,000)	Value added by manu- facture (million dollars)
				Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
30	Rubber and miscellaneous plastics products ----	-	110	42	5.3	52.3	4.2	8.2	35.1	152.3	124.1	274.7	11.8	6.1	122.3	
3021	Rubber and plastics footwear --	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
3069	Fabricated rubber products, n.e.c. -----	-	14	6	0.8	7.9	0.6	1.1	4.8	13.3	16.6	29.7	0.4	CC	(D)	
3079	Miscellaneous plastics products -----	E1	95	35	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	99.0	
31	Leather and leather products -----	-	24	15	2.7	20.6	2.3	3.9	13.3	42.9	51.9	99.3	1.4	1.9	28.2	
3131	Boot and shoe cut stock and findings -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
3161	Luggage -----	-	4	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
317	Handbags and other personal leather goods -----	-	12	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
3172	Personal leather goods -----	-	12	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
32	Stone, clay, and glass products -----	-	50	18	2.4	32.8	1.8	3.8	23.3	77.8	43.7	121.6	(D)	2.3	43.7	
322	Glass and glassware, pressed or blown -----	-	4	3	1.3	17.6	1.1	2.4	14.9	43.8	21.0	65.9	(D)	EE	(D)	
3221	Glass containers -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
3229	Pressed and blown glass, n.e.c. -----	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
327	Concrete, gypsum, and plaster products -----	E1	25	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	9.1	
3273	Ready-mixed concrete -----	E1	7	4	0.2	3.0	0.2	0.3	1.8	6.9	7.5	14.5	1.0	0.2	2.9	
329	Miscellaneous nonmetallic mineral products -----	-	7	4	0.5	7.4	0.3	0.6	3.4	16.5	7.5	23.4	0.5	(NA)	(NA)	
3293	Gaskets, packing, and sealing devices -----	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
33	Primary metal industries -----	-	110	38	8.1	96.5	6.4	13.0	67.0	249.8	421.5	665.8	9.4	9.2	175.5	
331	Blast furnace and basic steel products -----	-	7	3	0.7	11.5	0.6	1.2	9.5	19.9	21.3	40.4	(D)	1.8	34.8	
3312	Blast furnaces and steel mills -----	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
3316	Cold finishing of steel shapes -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
332	Iron and steel foundries -----	E1	9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	10.5	
3321	Gray iron foundries -----	-	7	3	0.2	2.0	0.1	0.2	1.4	2.9	1.5	4.6	(D)	CC	(D)	
3341	Secondary nonferrous metals --	-	10	4	0.2	3.3	0.1	0.3	1.6	43.0	60.1	101.5	1.2	(NA)	(NA)	
335	Nonferrous rolling and drawing -	-	26	16	6.2	71.0	4.8	10.0	48.7	169.5	322.7	488.6	5.9	5.8	113.4	
3351	Copper rolling and drawing --	-	4	3	0.5	5.4	0.4	0.8	4.5	10.4	13.0	23.1	0.2	CC	(D)	
3356	Nonferrous rolling and drawing, n.e.c. -----	E1	8	2	0.2	2.0	0.1	0.2	1.3	4.1	12.6	16.6	0.3	(NA)	(NA)	
3357	Nonferrous wire drawing and insulating -----	-	14	11	5.5	63.6	4.2	8.9	42.8	155.0	297.0	448.9	5.5	5.1	102.0	
336	Nonferrous foundries -----	E1	34	6	0.4	4.0	0.3	0.6	2.8	7.7	9.1	16.7	0.3	0.4	5.3	
3369	Nonferrous foundries, n.e.c. -	E1	14	2	0.2	1.7	0.1	0.3	1.2	3.9	6.4	10.3	0.1	(NA)	(NA)	
339	Miscellaneous primary metal products -----	E1	23	5	0.3	3.1	0.2	0.4	1.9	5.5	4.7	10.3	0.3	AA	(D)	
3399	Metal heat treating -----	E1	17	4	0.2	2.3	0.2	0.3	1.5	3.8	3.7	7.6	0.3	AA	(D)	
34	Fabricated metal products -----	-	414	112	15.4	178.2	12.5	23.4	120.1	298.9	276.7	576.9	10.8	8.5	115.2	
342	Cutlery, hand tools, and hardware -----	-	16	4	1.0	9.7	0.8	1.7	7.2	17.5	10.7	28.3	(D)	CC	(D)	
3421	Cutlery -----	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
344	Fabricated structural metal products -----	-	65	17	6.2	77.7	4.9	9.4	51.4	130.3	136.0	271.6	2.8	1.2	24.3	
3441	Fabricated structural metal --	-	6	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	6.0	
3442	Metal doors, sash, and trim --	E1	13	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	4.1	
3443	Fabricated plate work (boiler shops) -----	-	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
3444	Sheet metal work -----	E5	26	4	0.3	3.8	0.2	0.4	2.3	7.4	9.0	16.5	0.4	0.2	4.2	
345	Screw machine products, bolts, etc. -----	-	48	13	1.3	15.0	1.1	2.1	10.4	24.7	30.0	54.4	2.0	1.3	18.9	
3451	Screw machine products -----	E2	36	5	0.5	5.6	0.4	0.8	3.8	9.6	5.8	15.2	0.8	CC	(D)	
3452	Bolts, nuts, rivets, and washers -----	-	12	8	0.8	9.4	0.7	1.2	6.5	15.1	24.2	39.3	1.2	CC	(D)	
346	Metal forgings and stampings --	-	44	19	1.1	12.4	0.9	1.9	8.3	21.7	19.1	40.7	1.3	EE	(D)	
3469	Metal stampings, n.e.c. -----	-	40	15	0.8	9.1	0.7	1.4	6.2	16.9	14.7	31.4	(D)	EE	(D)	

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	E1	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
34	Fabricated metal products—Con.														
347	Metal services, n.e.c. -----	E2	182	41	2.9	25.8	2.5	4.5	18.0	46.8	31.5	77.8	2.2	2.4	23.6
3471	Plating and polishing -----	E2	128	28	2.2	18.9	1.9	3.4	13.5	31.9	15.1	46.9	1.3	EE	(D)
3479	Metal coating and allied services -----	E1	54	13	0.7	6.9	0.6	1.2	4.5	14.9	16.4	30.9	0.9	BB	(D)
349	Miscellaneous fabricated metal products -----	-	52	18	2.9	37.3	2.2	3.8	24.8	57.5	49.0	103.4	2.1	1.4	19.6
3494	Valves and pipe fittings -----	-	8	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3496	Miscellaneous fabricated wire products -----	-	12	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3499	Fabricated metal products, n.e.c. -----	E1	29	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	7.8
35	Machinery, except electrical -----	-	319	60	8.7	120.0	5.8	11.4	67.5	215.0	110.6	317.7	12.9	9.0	138.1
354	Metalworking machinery -----	-	111	25	4.4	62.4	3.1	6.2	37.8	110.0	44.6	146.9	6.6	3.8	55.9
3541	Machine tools, metal cutting types -----	-	20	7	2.4	35.8	1.6	3.3	20.6	61.9	25.9	81.9	(D)	EE	(D)
3544	Special dies, tools, jigs, and fixtures -----	E2	59	7	0.6	7.8	0.5	0.8	5.4	12.2	5.2	17.2	0.9	CC	(D)
3545	Machine tool accessories -----	-	22	9	1.3	16.7	0.9	1.8	10.7	32.9	10.1	41.3	1.3	1.1	19.4
355	Special industry machinery -----	-	40	11	2.0	30.1	1.1	2.1	13.7	51.5	27.1	79.7	2.4	3.4	52.4
3552	Textile machinery -----	-	25	7	1.5	20.8	0.8	1.7	8.2	40.4	13.4	56.2	(D)	2.3	39.8
3559	Special industry machinery, n.e.c. -----	-	12	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
356	General industrial machinery -----	-	30	9	0.8	10.1	0.5	1.0	5.7	23.2	19.2	41.2	2.4	0.8	16.4
3561	Pumps and pumping equipment -----	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3567	Industrial furnaces and ovens -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3569	General industrial machinery, n.e.c. -----	-	11	3	0.2	2.1	0.1	0.2	1.1	3.6	2.7	6.2	(D)	BB	(D)
357	Office and computing machines -----	-	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3573	Electronic computing equipment -----	-	5	3	0.4	6.3	0.2	0.5	2.7	10.6	7.8	18.3	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E3	106	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	11.6
3599	Machinery, except electrical, n.e.c. -----	E3	106	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	11.6
36	Electric and electronic equipment -	-	67	35	8.3	92.4	5.7	10.0	49.3	175.8	128.2	294.8	16.6	8.3	121.0
362	Electrical industrial apparatus --	E6	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
364	Electric lighting and wiring equipment -----	-	18	14	3.8	36.7	3.1	5.4	26.3	63.7	71.1	128.1	3.5	3.1	36.5
3643	Current-carrying wiring devices -----	-	9	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3645	Residential lighting fixtures --	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
366	Communication equipment -----	-	6	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3662	Radio and TV communication equipment --	-	5	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
367	Electronic components and accessories -----	E1	25	10	1.7	15.5	1.2	2.0	8.0	33.7	20.3	51.0	(D)	EE	(D)
3671	Electron tubes, all types -----	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3674	Semiconductors and related devices -----	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3679	Electronic components, n.e.c. -----	E2	14	3	0.4	4.4	0.4	0.8	3.2	5.8	4.2	10.0	0.4	AA	(D)
369	Miscellaneous electrical equipment and supplies -----	-	9	5	0.6	7.5	0.4	0.8	5.0	19.8	15.4	33.3	(D)	1.2	18.0
3699	Electrical equipment and supplies, n.e.c. -----	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
37	Transportation equipment -----	-	46	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	23.9
371	Motor vehicles and equipment -	-	13	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3713	Truck and bus bodies -----	-	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3714	Motor vehicle parts and accessories -----	-	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
373	Ship and boat building and repairing -----	-	30	9	1.0	11.0	0.8	1.8	8.3	19.8	17.7	37.5	(D)	0.8	10.9
3731	Ship building and repairing --	E1	9	4	0.3	4.5	0.3	0.8	3.3	7.2	5.2	12.4	(D)	0.2	2.7
3732	Boat building and repairing --	-	21	5	0.7	6.5	0.6	1.1	5.0	12.7	12.5	25.1	(D)	0.7	8.2

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
38	Instruments and related products -----	-	48	22	6.0	66.4	4.2	8.3	38.5	156.2	79.6	232.6	7.1	5.3	70.8
382	Measuring and controlling devices -----	-	8	5	1.7	20.7	0.9	1.9	9.0	46.0	22.9	68.8	(D)	BB	(D)
3822	Environmental controls -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3825	Instruments to measure electricity -----	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
384	Medical instruments and supplies -----	-	17	6	2.3	25.4	1.7	3.5	15.5	67.9	30.6	97.5	4.7	EE	(D)
3841	Surgical and medical instruments -----	-	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3842	Surgical appliances and supplies -----	-	14	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3851	Ophthalmic goods -----	-	10	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	18.4
3861	Photographic equipment and supplies -----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3873	Watches, clocks, and watchcases -----	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
39	Miscellaneous manufacturing industries -----	-	1 051	274	33.3	284.7	26.0	45.4	181.1	679.6	605.8	1 271.6	25.4	26.8	392.8
391	Jewelry, silverware, and plated ware -----	-	489	114	14.5	125.7	10.5	18.7	77.3	292.0	311.0	598.6	(D)	FF	(D)
3911	Jewelry, precious metal -----	-	295	69	9.9	76.3	6.8	12.0	48.0	190.1	189.3	370.2	9.8	6.2	94.8
3914	Silverware and plated ware -----	-	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3915	Jewelers' materials and lapidary work -----	E1	186	42	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
394	Toys and sporting goods -----	-	21	8	1.8	16.5	1.4	2.0	11.2	47.4	48.5	93.7	(D)	3.5	60.3
3944	Games, toys, and children's vehicles -----	-	7	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3948	Sporting and athletic goods, n.e.c. -----	-	14	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
395	Pens, pencils, office and art supplies -----	-	10	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3951	Pens and mechanical pencils -----	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
396	Costume jewelry and notions --	-	329	126	14.2	116.8	11.7	20.4	74.4	268.0	197.6	460.6	(D)	10.4	138.5
3961	Costume jewelry -----	-	315	119	13.1	105.9	11.0	19.0	69.4	248.8	185.0	428.4	8.5	8.9	117.2
3964	Needles, pins, and fasteners -----	-	13	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
399	Miscellaneous manufactures --	E3	199	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	15.6
3993	Signs and advertising displays -----	-	32	13	0.8	6.4	0.7	1.2	4.4	12.1	9.0	20.9	0.2	0.7	8.0
3999	Manufacturing industries, n.e.c. -----	E5	163	7	0.7	5.6	0.6	0.9	3.6	11.3	9.4	20.7	0.6	0.7	7.0
-	Administrative and auxiliary -----	-	25	12	1.4	29.7	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972		
			E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees ³ (1,000)	Value added by manu- facture (million dollars)
				Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Fall River, Mass.-R.I., SMSA --	-		310	166	22.3	205.4	17.8	32.7	138.0	400.4	341.8	738.6	13.8	25.5	336.6
20	Food and kindred products --	E2		37	7	0.6	6.2	0.5	0.9	4.4	22.2	28.8	50.8	1.3	0.9	18.2
22	Textile mill products-----	-		30	25	4.5	45.5	3.7	7.4	33.3	89.2	86.8	173.7	2.9	4.8	63.5
225	Knitting mills-----	E1		7	6	0.9	6.5	0.8	1.3	5.5	13.1	4.2	17.0	0.4	0.9	7.8
2253	Knit outerwear mills ----	-		4	3	0.7	4.7	0.7	1.1	4.2	10.3	2.1	12.1	(D)	(NA)	(NA)
226	Textile finishing, except wool -----	-		10	9	1.9	21.7	1.5	3.1	16.0	40.4	32.1	72.2	(D)	2.3	31.5
23	Apparel and other textile products-----	-		94	76	9.3	62.7	8.4	14.3	52.1	104.4	64.8	169.5	1.1	10.3	86.1
2311	Men's and boys' suits and coats -----	-		9	8	1.9	13.5	1.7	3.1	11.2	30.3	11.8	40.6	0.3	1.2	16.1
232	Men's and boys' furnishings -----	E2		8	6	1.4	9.5	1.3	2.5	8.3	12.6	5.1	17.8	0.1	1.3	8.9
2329	Men's and boys' clothing, n.e.c.-----	E4		4	3	0.5	2.9	0.4	0.7	2.2	4.3	3.9	8.2	(D)	(NA)	(NA)
233	Women's and misses' outerwear -----	E1		49	41	3.9	24.5	3.6	5.7	21.1	32.2	7.6	40.1	0.5	5.0	34.2
2331	Women's and misses' blouses and waists -----	-		5	5	0.5	3.1	0.5	0.7	2.7	3.8	0.3	4.1	(D)	(NA)	(NA)
2335	Women's and misses' dresses -----	E3		27	22	1.8	10.9	1.7	2.6	9.2	15.6	4.7	20.6	(D)	4.2	29.1
2337	Women's and misses' suits and coats -----	-		11	9	1.2	8.1	1.1	1.8	7.0	9.8	2.3	12.1	0.3	0.4	3.1
2339	Women's and misses' outerwear, n.e.c.-----	E1		6	5	0.4	2.4	0.4	0.6	2.1	3.0	0.4	3.4	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products-----	-		21	14	1.7	12.2	1.4	2.5	9.1	25.4	38.4	65.3	0.1	1.8	18.3
2391	Curtains and draperies --	-		13	9	1.3	9.2	1.0	1.9	7.0	18.3	34.5	54.3	0.1	1.3	15.4
27	Printing and publishing -----	-		19	4	0.6	5.3	0.4	0.6	2.7	11.6	5.7	17.3	0.3	0.6	9.8
30	Rubber and miscellaneous plastics products-----	E2		10	5	0.5	6.8	0.4	0.9	4.6	10.4	11.8	22.0	1.4	0.6	9.9
3069	Fabricated rubber products, n.e.c.-----	E2		4	2	0.4	5.0	0.3	0.6	3.4	7.6	9.4	16.8	(D)	(NA)	(NA)
31	Leather and leather products-----	E3		4	4	0.5	4.2	0.4	0.7	2.3	11.0	9.6	20.4	(D)	(NA)	(NA)
34	Fabricated metal products ---	-		18	9	1.0	9.2	0.9	1.7	7.7	23.0	17.5	39.3	0.8	0.5	6.1
35	Machinery, except electrical -	-		19	6	0.5	4.9	0.3	0.6	2.7	5.6	8.5	14.7	0.3	0.6	9.6
36	Electric and electronic equipment -----	-		10	5	2.2	34.2	0.9	1.9	11.3	63.4	28.1	90.9	(D)	(NA)	(NA)
37	Transportation equipment ---	-		10	3	0.8	7.2	0.6	1.2	5.3	15.3	14.6	29.4	(D)	0.5	5.0
373	Ship and boat building and repairing -----	-		10	3	0.8	7.2	0.6	1.2	5.3	15.3	14.6	29.4	(D)	0.5	5.0
39	Miscellaneous manufacturing industries ---	E1		13	4	0.4	3.1	0.3	0.6	2.3	6.2	5.8	12.8	(D)	0.3	4.5
	New London-Norwich, Conn.-R.I., SMSA-----	-		286	108	41.8	575.8	26.6	51.3	305.5	1 081.4	780.7	1 847.4	49.3	29.2	457.4
22	Textile mill products-----	-		17	13	1.5	15.9	1.3	2.6	11.9	27.8	31.0	58.6	1.8	2.4	33.2
23	Apparel and other textile products-----	-		16	10	1.3	12.0	0.8	1.4	5.6	27.7	49.2	75.7	0.3	1.2	20.5
26	Paper and allied products ---	-		13	12	1.3	17.8	1.0	2.1	12.5	38.6	53.8	91.1	3.0	1.2	21.0
2631	Paperboard mills-----	-		3	3	0.3	6.0	0.3	0.6	4.7	11.3	30.3	41.7	(D)	(NA)	(NA)
264	Miscellaneous converted paper products-----	-		4	4	0.4	4.4	0.3	0.6	3.0	15.0	10.8	24.5	(D)	(NA)	(NA)
265	Paperboard containers and boxes-----	-		6	5	0.6	7.4	0.5	1.0	4.7	12.3	12.7	24.9	(D)	0.6	8.6
27	Printing and publishing -----	-		33	11	1.8	21.7	1.1	2.0	11.7	44.2	15.8	59.7	1.5	1.6	27.2
2711	Newspapers -----	-		5	3	0.7	6.3	0.3	0.6	3.1	11.7	3.5	15.1	(D)	(NA)	(NA)
275	Commercial printing -----	-		21	5	0.7	10.0	0.6	1.2	7.4	17.8	8.8	26.5	1.0	0.5	8.0

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	New London-Norwich, Conn.-R.I., SMSA—Con.														
28	Chemicals and allied products -----	-	12	6	4.4	59.6	2.7	5.8	40.0	246.9	183.2	423.8	15.2	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	E2	11	4	0.4	3.1	0.3	0.6	2.4	6.2	9.2	16.9	(D)	0.4	6.2
33	Primary metal industries ----	-	8	6	1.2	13.8	1.0	2.1	11.0	22.7	49.8	70.5	0.9	1.3	17.0
35	Machinery, except electrical -	-	30	6	1.5	23.6	0.9	1.9	11.2	57.5	30.4	83.6	3.2	1.8	38.7
36	Electric and electronic equipment -----	-	16	8	1.9	16.0	1.5	2.9	10.5	30.7	34.6	66.3	1.4	0.6	6.7
367	Electronic components and accessories -----	-	7	5	0.6	5.7	0.5	1.0	3.6	9.8	9.0	19.2	(D)	(NA)	(NA)
	Providence-Warwick-Pawtucket, R.I.-Mass., SMSA ----	-	3 320	1 026	140.0	1 494.4	107.3	202.2	947.1	3 040.4	3 161.2	6 158.6	173.3	131.9	1 959.9
20	Food and kindred products --	E1	147	36	3.6	41.1	2.3	4.2	21.8	83.4	178.8	261.4	4.3	(NA)	(NA)
202	Dairy products -----	E5	25	8	0.5	5.2	0.3	0.5	2.2	7.0	37.7	44.7	1.1	1.0	18.8
2026	Fluid milk -----	E5	17	7	0.4	4.6	0.2	0.4	1.8	5.7	32.7	38.4	1.1	1.0	17.2
205	Bakery products -----	-	39	8	1.0	13.1	0.4	0.7	3.8	25.5	27.0	52.5	0.6	(NA)	(NA)
208	Beverages -----	E1	19	5	0.7	9.2	0.5	0.8	6.2	19.3	39.9	59.0	0.6	(NA)	(NA)
209	Miscellaneous foods and kindred products -----	E1	28	7	0.4	3.8	0.4	0.6	2.5	10.0	22.2	32.2	0.7	0.3	4.0
22	Textile mill products -----	-	190	115	11.7	107.0	9.9	20.2	78.3	194.0	222.2	415.8	13.2	15.4	173.5
2221	Weaving mills, manmade fiber and silk -----	E1	15	10	0.7	7.0	0.6	1.3	5.8	11.3	14.2	25.9	(D)	1.4	20.1
2231	Weaving and finishing mills, wool -----	E1	17	10	1.0	9.8	1.0	2.3	8.8	20.8	19.2	40.3	0.6	(NA)	(NA)
2241	Narrow fabric mills -----	-	41	27	3.1	26.7	2.8	5.4	20.2	48.5	54.5	102.9	2.6	(NA)	(NA)
225	Knitting mills -----	-	12	8	1.0	8.9	0.9	1.6	7.0	13.2	28.4	41.7	1.4	(NA)	(NA)
2257	Circular knit fabric mills -	-	7	3	0.8	6.9	0.7	1.3	5.5	9.5	21.4	31.0	(D)	2.0	24.0
226	Textile finishing, except wool -----	E1	31	21	1.9	20.6	1.4	2.9	12.4	27.5	22.2	50.0	2.4	(NA)	(NA)
2269	Finishing plants, n.e.c. --	E2	9	7	0.5	4.5	0.4	0.9	3.4	8.3	10.0	18.2	0.8	0.9	8.2
228	Yarn and thread mills -----	-	19	11	1.5	13.9	1.3	2.8	10.2	31.2	41.2	72.2	1.4	1.8	16.3
229	Miscellaneous textile goods -----	-	47	22	2.0	17.3	1.6	3.3	11.7	37.0	36.1	72.0	2.3	(NA)	(NA)
2292	Lace goods -----	-	17	5	0.5	4.0	0.4	0.9	3.1	6.6	2.2	8.8	(D)	(NA)	(NA)
2298	Cordage and twine -----	-	7	4	0.5	3.5	0.4	0.7	2.6	8.9	5.6	14.1	0.2	(NA)	(NA)
2299	Textile goods, n.e.c. -----	E4	14	8	0.4	2.7	0.4	0.7	1.9	5.1	3.9	8.8	1.1	(NA)	(NA)
23	Apparel and other textile products -----	E2	65	31	2.9	21.9	2.5	4.3	16.0	49.7	38.8	87.1	0.7	(NA)	(NA)
233	Women's and misses' outerwear -----	E4	22	15	0.9	6.1	0.8	1.3	5.0	11.9	3.3	15.2	0.1	1.0	5.0
2335	Women's and misses' dresses -----	E4	15	9	0.5	3.0	0.5	0.8	2.5	7.7	2.0	9.7	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	E1	30	6	0.5	5.0	0.4	0.8	3.3	13.7	10.9	24.1	0.3	(NA)	(NA)
24	Lumber and wood products --	E1	47	7	0.6	5.7	0.5	1.0	4.4	10.5	7.2	17.5	0.4	(NA)	(NA)
26	Paper and allied products --	-	61	31	2.9	30.6	2.3	4.5	20.7	58.1	74.8	132.8	2.8	(NA)	(NA)
264	Miscellaneous converted paper products -----	-	28	11	0.9	11.8	0.7	1.5	7.7	21.6	39.6	60.3	0.8	(NA)	(NA)
2641	Paper coating and glazing -----	-	10	5	0.6	7.8	0.5	1.0	5.4	13.6	29.3	42.1	0.5	(NA)	(NA)
2652	Setup paperboard boxes -----	E1	17	12	0.8	5.6	0.6	1.1	3.6	10.7	5.0	15.7	0.4	(NA)	(NA)
2653	Corrugated and solid fiber boxes -----	-	8	3	0.3	3.2	0.2	0.4	1.9	6.6	8.9	16.1	0.2	(NA)	(NA)
27	Printing and publishing ----	-	215	46	5.2	68.4	3.4	6.4	40.1	132.0	77.3	208.6	7.0	5.5	104.6
2711	Newspapers -----	-	25	8	1.7	25.2	0.7	1.2	10.5	47.8	16.0	63.8	2.1	(NA)	(NA)
275	Commercial printing -----	E1	142	25	2.3	30.2	1.9	3.6	21.5	55.2	48.4	103.5	4.2	1.9	34.2

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
27	Providence-Warwick-Pawtucket, R.I.-Mass., SMSA—Con.														
275	Printing and publishing—Con.														
2752	Commercial printing, lithographic -----	E1	55	14	1.0	12.6	0.8	1.5	8.2	26.1	17.3	43.3	(D)	(NA)	(NA)
2753	Engraving and plate printing -----	E1	10	2	0.3	2.9	0.3	0.5	2.1	7.0	2.5	9.4	(D)	(NA)	(NA)
279	Printing trade services -----	-	18	4	0.3	4.4	0.2	0.4	2.9	7.4	1.7	9.0	0.3	(NA)	(NA)
28	Chemicals and allied products -----	-	69	19	3.0	39.3	2.1	3.9	20.3	76.1	144.8	218.3	11.3	(NA)	(NA)
284	Soaps, cleaners, and toilet goods -----	-	16	6	0.8	8.4	0.7	1.4	5.5	16.3	37.9	53.7	2.3	0.9	14.6
30	Rubber and miscellaneous plastics products -----	-	115	46	5.5	54.6	4.4	8.6	36.6	159.1	132.0	289.5	11.8	6.5	125.8
3079	Miscellaneous plastics products -----	-	100	39	4.5	45.8	3.7	7.3	31.1	144.8	114.7	257.9	11.4	4.3	102.5
31	Leather and leather products -----	-	26	16	2.9	21.8	2.5	4.2	14.2	46.2	53.7	104.5	1.4	(NA)	(NA)
32	Stone, clay, and glass products -----	-	55	20	2.5	33.9	1.9	3.9	23.9	80.3	45.9	126.5	5.4	2.5	46.7
322	Glass and glassware, pressed or blown -----	-	4	3	1.3	17.6	1.1	2.4	14.9	43.8	21.0	65.9	2.8	(NA)	(NA)
327	Concrete, gypsum, and plaster products -----	E1	30	10	0.5	6.9	0.3	0.6	4.2	15.5	14.0	29.8	1.4	0.6	12.2
3273	Ready-mixed concrete -----	E1	9	5	0.3	3.5	0.2	0.3	2.1	8.5	8.6	17.1	1.1	(NA)	(NA)
329	Miscellaneous nonmetallic mineral products -----	-	10	4	0.5	7.6	0.3	0.6	3.5	16.7	7.6	23.6	(D)	(NA)	(NA)
33	Primary metal industries -----	-	127	46	9.4	113.7	7.5	15.6	80.6	280.1	649.3	928.3	10.9	10.1	190.9
331	Blast furnace and basic steel products -----	-	7	4	0.8	12.1	0.6	1.3	10.0	20.3	22.1	41.7	(D)	1.8	34.8
3341	Secondary nonferrous metals -----	-	11	4	0.3	3.9	0.2	0.3	1.7	44.3	70.3	112.8	(D)	(NA)	(NA)
335	Nonferrous rolling and drawing -----	-	35	22	7.3	85.7	5.8	12.4	60.7	195.5	538.4	734.9	7.0	6.5	127.5
3351	Copper rolling and drawing -----	-	6	4	0.6	6.1	0.5	0.9	4.9	12.1	15.2	28.8	(D)	(NA)	(NA)
3356	Nonferrous rolling and drawing, n.e.c. -----	-	14	6	1.3	17.3	1.1	2.4	12.4	33.8	250.1	290.1	(D)	1.1	26.1
3357	Nonferrous wire drawing and insulating -----	-	15	12	5.4	62.2	4.3	9.1	43.4	149.6	273.2	418.0	4.3	(NA)	(NA)
3398	Metal heat treating -----	E1	21	4	0.3	2.5	0.2	0.4	1.6	4.3	3.8	8.1	0.3	(NA)	(NA)
34	Fabricated metal products -----	-	478	131	16.9	195.9	13.7	26.0	132.2	328.2	304.3	632.5	12.4	10.0	133.7
342	Cutlery, hand tools, and hardware -----	E1	17	6	1.0	10.2	0.9	1.8	7.6	18.7	11.5	30.4	0.4	(NA)	(NA)
344	Fabricated structural metal products -----	-	70	18	6.5	81.7	5.1	9.9	54.0	136.2	141.0	281.9	3.2	(NA)	(NA)
3442	Metal doors, sash, and trim -----	E1	14	4	0.3	3.0	0.2	0.3	1.7	5.3	6.5	11.8	0.1	(NA)	(NA)
3444	Sheet metal work -----	E5	28	4	0.3	4.0	0.2	0.4	2.5	7.5	9.2	16.8	0.4	(NA)	(NA)
345	Screw machine products, bolts, etc. -----	-	52	16	1.7	18.3	1.4	2.7	13.1	30.9	33.5	63.9	2.2	(NA)	(NA)
3451	Screw machine products -----	E1	39	7	0.8	8.5	0.7	1.4	6.3	15.1	9.0	23.7	0.9	0.8	11.5
3452	Bolts, nuts, rivets, and washers -----	-	13	9	0.9	9.8	0.7	1.3	5.8	15.8	24.5	40.2	1.3	(NA)	(NA)
346	Metal forgings and stampings -----	-	61	25	1.4	17.5	1.1	2.5	11.1	29.7	28.2	57.3	2.1	1.5	20.8
3469	Metal stampings, n.e.c. -----	-	56	20	1.1	13.9	0.9	1.9	8.7	24.3	23.5	47.2	2.0	1.3	18.1
347	Metal services, n.e.c. -----	E2	214	48	3.4	30.3	3.0	5.3	21.2	54.2	39.9	93.5	2.5	2.8	28.5
3471	Plating and polishing -----	E2	144	32	2.5	21.8	2.2	3.9	15.5	36.6	22.6	59.1	1.5	2.3	23.2
3479	Metal coating and allied services -----	E1	70	16	0.9	8.5	0.7	1.4	5.7	17.5	17.4	34.4	0.9	0.5	5.3
349	Miscellaneous fabricated metal products -----	-	57	18	2.9	37.8	2.3	3.9	25.0	57.9	49.7	104.4	2.1	(NA)	(NA)
3494	Valves and pipe fittings -----	-	8	6	0.6	8.1	0.3	0.6	3.1	14.3	8.7	20.9	0.9	(NA)	(NA)
3499	Fabricated metal products, n.e.c. -----	E1	33	7	0.7	6.1	0.6	1.1	4.6	11.4	11.9	23.1	0.4	(NA)	(NA)
35	Machinery, except electrical -----	-	353	66	9.3	127.7	6.3	12.3	72.4	229.5	117.4	338.5	13.6	9.6	147.8
354	Metalworking machinery -----	-	130	29	4.6	64.5	3.2	6.5	39.2	113.4	46.6	152.2	6.7	3.9	57.6
3541	Machine tools, metal cutting types -----	-	19	7	2.4	35.8	1.6	3.3	20.6	61.9	25.9	81.9	(D)	(NA)	(NA)
3545	Machine tool accessories -----	-	26	10	1.3	17.4	0.9	1.9	11.1	33.9	10.5	42.7	1.4	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Providence-Warwick-Pawtucket, R.I.-Mass., SMSA—Con.														
35	Machinery, except electrical—Con.														
355	Special industry machinery -----	-	42	11	2.4	34.2	1.4	2.6	15.8	61.9	30.5	93.1	2.9	(NA)	(NA)
3552	Textile machinery -----	-	26	7	1.5	20.9	0.8	1.7	8.2	40.4	13.5	56.3	(D)	(NA)	(NA)
3559	Special industry machinery, n.e.c. -----	-	13	4	0.9	13.1	0.5	0.9	7.5	21.1	16.7	36.1	(D)	(NA)	(NA)
356	General industrial machinery -----	-	27	7	0.7	9.2	0.5	1.0	5.3	21.2	18.0	38.1	2.3	(NA)	(NA)
357	Office and computing machines -----	-	8	4	0.5	7.0	0.3	0.7	3.3	12.3	8.6	20.9	(D)	(NA)	(NA)
3573	Electronic computing equipment -----	-	4	3	0.4	6.2	0.2	0.5	2.7	10.3	7.5	17.8	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E3	122	10	0.9	9.9	0.7	1.3	7.0	14.7	8.3	22.8	1.0	1.0	13.6
3599	Machinery, except electrical, n.e.c. -----	E3	122	10	0.9	9.9	0.7	1.3	7.0	14.7	8.3	22.8	1.0	1.0	13.6
36	Electric and electronic equipment -----	-	69	34	7.0	68.0	5.3	9.4	43.0	135.3	126.5	251.3	16.2	11.3	165.7
364	Electric lighting and wiring equipment -----	E1	19	13	3.7	35.9	3.0	5.2	25.1	59.4	67.7	120.4	3.1	(NA)	(NA)
3643	Current-carrying wiring devices -----	-	9	7	3.2	31.7	2.6	4.6	22.6	49.5	58.9	101.8	(D)	(NA)	(NA)
367	Electronic components and accessories -----	-	30	12	2.4	21.9	1.7	3.0	11.4	51.8	38.5	86.5	(D)	1.8	22.2
3679	Electronic components, n.e.c. -----	-	19	5	1.1	10.4	0.8	1.7	6.5	23.2	22.5	44.9	1.4	0.6	10.9
369	Miscellaneous electrical equipment and supplies --	-	9	6	0.6	7.8	0.4	0.9	5.1	20.2	15.8	34.0	(D)	(NA)	(NA)
373	Ship and boat building and repairing -----	-	18	5	0.4	4.7	0.3	0.8	3.7	8.1	6.7	14.8	0.4	(NA)	(NA)
38	Instruments and related products -----	-	57	25	11.9	141.4	9.5	18.5	101.4	282.4	199.4	475.7	29.4	5.9	79.6
384	Medical instruments and supplies -----	-	17	7	2.4	25.8	1.8	3.5	15.7	69.0	31.3	99.3	4.7	(NA)	(NA)
3851	Ophthalmic goods -----	-	16	7	1.7	16.4	1.3	2.6	11.2	39.0	21.7	56.8	1.1	(NA)	(NA)
39	Miscellaneous manufacturing industries ---	-	1 142	321	40.9	369.6	31.5	55.5	224.5	844.9	733.3	1 565.6	29.1	34.8	495.6
391	Jewelry, silverware, and plated ware -----	-	553	146	19.2	179.5	13.6	24.8	103.7	390.6	399.2	786.0	15.3	15.7	220.5
3911	Jewelry, precious metal -----	-	340	91	13.6	120.6	9.1	16.6	67.3	267.5	243.0	502.3	11.6	10.2	145.7
3914	Silverware and plated ware -----	-	16	6	1.1	14.1	0.7	1.3	7.6	27.6	16.3	51.3	0.2	(NA)	(NA)
3915	Jewelers' materials and lapidary work -----	E1	197	49	4.4	44.8	3.8	6.9	28.8	95.5	139.9	232.4	3.6	(NA)	(NA)
394	Toys and sporting goods --	-	20	8	1.8	16.6	1.5	2.0	11.2	47.6	48.6	94.1	0.8	(NA)	(NA)
395	Costume jewelry and notions -----	-	353	138	16.9	146.0	13.9	24.2	90.2	333.4	238.0	566.7	10.1	13.2	179.0
3961	Costume jewelry -----	-	339	130	15.7	134.9	13.2	22.8	85.0	314.0	225.3	534.2	9.3	11.7	157.5
3999	Manufacturing industries, n.e.c. -----	E4	165	9	0.9	8.0	0.7	1.2	5.2	15.6	10.8	26.3	0.6	(NA)	(NA)
--	Administrative and auxiliary --	-	27	14	1.5	30.8	--	--	--	--	--	--	--	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.

(Z) Less than 50 thousand dollars or hours; under 50 employees.

¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

² Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Bristol County -----	-	89	35	4.7	44.7	3.7	7.0	28.5	82.6	66.7	176.1	2.9	5.5	78.3
22	Textile mill products -----	-	8	6	0.7	6.3	0.6	1.3	4.5	11.1	9.6	20.5	0.2	0.6	5.3
30	Rubber and miscellaneous plastics products -----	E2	12	6	0.9	8.9	0.6	1.2	5.5	15.7	13.7	29.4	0.8	1.7	20.9
	Kent County -----	-	361	109	15.5	176.9	11.5	21.2	106.8	372.0	340.3	696.8	14.0	12.9	190.7
22	Textile mill products -----	E1	34	18	1.5	12.4	1.3	2.4	9.4	21.3	20.5	41.2	1.0	(NA)	(NA)
33	Primary metal industries -----	-	17	8	0.8	8.3	0.6	1.0	4.8	51.5	42.6	91.1	0.7	1.9	35.2
335	Nonferrous rolling and drawing -----	-	5	4	0.5	5.3	0.4	0.6	2.9	10.4	16.4	26.7	0.3	0.5	8.1
34	Fabricated metal products ---	-	45	14	2.5	35.5	1.9	3.2	22.8	59.8	52.9	109.6	1.6	1.4	26.4
344	Fabricated structural metal products -----	-	16	7	0.6	6.5	0.4	0.8	4.0	18.6	19.3	37.8	0.3	0.5	12.7
349	Miscellaneous fabricated metal products -----	-	8	5	1.8	26.8	1.4	2.1	17.4	37.6	31.1	65.8	1.1	(NA)	(NA)
35	Machinery, except electrical --	-	58	9	1.8	24.8	1.0	2.1	10.5	46.3	18.5	67.5	2.3	2.2	38.1
36	Electric and electronic equipment -----	E1	12	6	1.9	17.7	1.8	3.2	15.0	30.2	28.0	51.6	(D)	2.0	16.7
38	Instruments and related products -----	-	9	4	1.3	17.3	0.7	1.5	8.2	37.0	21.4	58.2	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	80	23	1.6	12.6	1.4	2.3	8.2	24.1	39.6	63.1	0.8	0.8	8.1
391	Jewelry, silverware, and plated ware -----	-	37	11	0.7	6.0	0.6	1.0	4.2	10.3	24.9	35.6	0.5	(NA)	(NA)
3911	Jewelry, precious metal --	-	21	7	0.5	4.2	0.4	0.7	3.2	6.8	13.9	21.3	0.2	(NA)	(NA)
396	Costume jewelry and notions -----	E1	17	6	0.5	3.9	0.4	0.8	2.3	8.1	10.9	18.1	0.1	(NA)	(NA)
3961	Costume jewelry -----	E1	17	6	0.5	3.9	0.4	0.8	2.3	8.1	10.9	18.1	0.1	(NA)	(NA)
	Newport County -----	-	64	19	3.7	49.8	2.1	4.0	21.6	99.0	70.6	170.5	4.1	3.5	68.4
37	Transportation equipment ---	-	13	4	0.6	6.3	0.5	1.0	4.7	11.8	11.0	22.8	0.3	0.5	6.9
373	Ship and boat building and repairing -----	-	13	4	0.6	6.3	0.5	1.0	4.7	11.8	11.0	22.8	0.3	0.5	6.9
	Providence County -----	-	2 485	745	91.1	931.0	69.6	130.0	596.2	1 959.8	1 980.2	3 905.4	114.9	91.0	1 362.8
33	Primary metal industries -----	-	85	27	6.8	81.5	5.5	11.3	58.4	187.2	350.1	530.5	7.5	6.4	113.9
331	Blast furnace and basic steel products -----	-	4	3	0.7	11.3	0.6	1.2	9.4	19.3	20.5	39.1	(D)	(NA)	(NA)
335	Nonferrous rolling and drawing -----	-	18	10	5.3	60.1	4.2	8.7	42.6	150.2	279.1	421.5	4.4	4.4	79.3
3357	Nonferrous wire drawing and insulating -----	-	10	8	4.7	54.6	3.7	8.0	38.1	140.5	265.0	398.0	4.2	(NA)	(NA)
34	Fabricated metal products ---	E1	357	95	7.7	76.9	6.4	12.2	52.8	135.4	116.9	251.9	7.0	5.8	84.8
342	Cutlery, hand tools, and hardware -----	-	14	4	1.0	9.5	0.8	1.7	7.0	17.2	10.5	27.8	0.4	(NA)	(NA)
344	Fabricated structural metal products -----	E3	47	9	0.7	8.7	0.5	1.0	5.3	14.0	16.0	30.5	0.8	0.7	11.6
345	Screw machine products, bolts, etc. -----	-	41	13	1.3	14.4	1.0	2.0	9.9	23.7	29.3	52.8	1.9	1.3	18.2
3452	Bolts, nuts, rivets, and washers -----	-	12	8	0.8	9.4	0.7	1.2	6.5	15.1	24.2	39.3	1.2	(NA)	(NA)
346	Metal forgings and stampings -----	-	38	16	0.9	9.8	0.7	1.5	6.3	17.0	14.5	31.3	1.0	1.0	12.5
3469	Metal stampings, n.e.c. ---	E1	34	12	0.6	6.5	0.5	1.0	4.2	12.1	10.1	22.1	0.9	(NA)	(NA)
347	Metal services, n.e.c. -----	E2	175	41	2.9	25.6	2.5	4.5	17.9	46.6	31.3	77.3	2.2	2.3	23.3
3471	Plating and polishing -----	E2	124	28	2.1	18.8	1.9	3.4	13.4	31.7	15.1	46.7	1.3	(NA)	(NA)
3479	Metal coating and allied services -----	E1	51	13	0.7	6.8	0.6	1.1	4.4	14.8	16.2	30.6	0.9	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	E1	38	12	0.9	8.8	0.8	1.6	6.4	16.7	14.9	31.4	0.7	0.6	6.9
3499	Fabricated metal products, n.e.c. -----	E1	23	7	0.6	5.3	0.5	1.0	4.1	10.2	10.6	20.6	0.4	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Providence County—Con.														
35	Machinery, except electrical --	E1	229	39	4.5	61.1	3.1	6.0	37.0	105.9	64.3	165.0	6.3	5.0	71.8
354	Metalworking machinery ---	E1	84	18	2.1	28.5	1.5	3.0	17.8	50.1	21.0	68.1	2.4	1.8	27.4
3541	Machine tools, metal cutting types -----	E1	16	5	0.5	7.3	0.3	0.6	4.0	11.1	6.1	15.9	0.3	(NA)	(NA)
3545	Machine tool accessories -----	-	16	7	1.2	15.9	0.8	1.7	10.2	31.6	9.4	39.2	1.3	(NA)	(NA)
355	Special industry machinery -	-	29	8	0.9	13.1	0.6	0.9	7.6	18.9	16.9	34.7	0.7	(NA)	(NA)
356	General industrial machinery -----	-	21	5	0.6	8.0	0.4	0.8	4.5	17.1	14.9	31.1	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	44	21	4.2	41.7	3.0	5.0	23.4	82.9	78.1	157.9	14.1	4.0	59.9
364	Electric lighting and wiring equipment -----	-	11	7	1.7	17.8	1.2	2.0	9.9	27.9	39.5	67.4	2.1	(NA)	(NA)
367	Electronic components and accessories -----	-	21	8	1.6	14.9	1.2	1.9	7.7	32.9	19.6	49.5	1.8	(NA)	(NA)
37	Transportation equipment ---	-	17	8	0.8	8.8	0.7	1.4	6.8	21.5	24.1	44.0	(D)	0.7	12.8
371	Motor vehicles and equipment -----	-	11	6	0.8	7.6	0.6	1.3	6.1	19.5	22.0	39.8	(D)	(NA)	(NA)
38	Instruments and related products -----	-	37	17	4.7	48.4	3.4	6.7	29.8	117.0	58.2	172.1	6.2	5.0	66.5
382	Measuring and controlling devices -----	-	5	3	0.7	7.0	0.4	0.7	2.7	14.0	7.1	20.8	(D)	(NA)	(NA)
384	Medical instruments and supplies -----	-	14	6	2.3	25.1	1.7	3.5	15.4	67.5	30.5	97.0	4.7	2.1	30.3
3842	Surgical appliances and supplies -----	-	12	5	1.0	9.8	0.9	1.6	6.9	30.6	15.4	45.3	1.5	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	946	245	31.0	266.2	24.1	42.0	169.0	640.6	556.3	1 184.6	24.4	25.3	378.0
391	Jewelry, silverware, and plated ware -----	-	448	102	13.7	119.5	9.9	17.7	72.9	281.4	285.6	562.2	12.0	10.3	155.4
3911	Jewelry, precious metal--	-	273	62	9.4	72.1	6.4	11.3	44.8	183.4	175.4	348.8	9.6	(NA)	(NA)
3915	Jewelers' materials and lapidary work -----	E1	170	37	3.4	35.2	2.9	5.3	22.0	75.9	96.4	170.4	2.3	(NA)	(NA)
394	Toys and sporting goods --	-	15	7	1.8	16.2	1.4	1.9	11.0	46.9	48.2	93.0	0.8	(NA)	(NA)
396	Costume jewelry and notions -----	-	308	117	13.2	108.8	10.8	18.8	69.5	250.7	181.3	428.5	9.1	9.7	132.8
3961	Costume jewelry -----	-	295	111	12.2	98.5	10.2	17.5	64.8	232.7	169.4	398.2	8.3	(NA)	(NA)
3964	Needles, pins, and fasteners -----	-	12	5	0.9	9.4	0.6	1.1	4.1	16.4	10.7	27.5	(D)	(NA)	(NA)
399	Miscellaneous manufactures -----	E3	166	15	1.2	10.2	1.0	1.7	6.8	18.9	15.7	34.4	0.6	1.1	12.0
3993	Signs and advertising displays -----	-	24	11	0.7	5.6	0.6	1.1	4.0	10.1	7.9	17.8	0.2	(NA)	(NA)
-	Administrative and auxiliary --	-	20	11	1.4	29.0	-	-	-	-	-	-	-	(NA)	(NA)
	Washington County -----	-	108	37	10.1	124.2	7.8	15.3	82.1	223.3	195.8	415.8	9.7	5.1	64.2
22	Textile mill products -----	-	18	11	1.8	19.5	1.5	2.9	14.4	35.9	45.1	79.8	2.4	2.3	25.3
226	Textile finishing, except wool -----	-	6	4	0.8	8.6	0.7	1.3	6.8	13.9	13.7	27.5	0.8	1.0	10.9

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities and Towns: 1977 and 1972

[Includes cities and towns with 450 employees or more and industry groups and industries with 450 employees or more within cities and towns, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City, town, and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Bristol town -----	-	42	18	1.8	19.0	1.2	2.5	11.9	33.5	26.4	59.8	1.2	2.7	32.8
22	Textile mill products -----	-	4	4	0.5	4.7	0.5	1.0	3.3	8.6	9.1	17.6	0.1	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	7	4	0.6	5.8	0.3	0.7	3.4	10.5	6.3	16.8	0.4	1.4	15.6
	Central Falls -----	-	71	32	3.9	39.1	3.1	5.8	27.2	93.3	69.9	161.7	4.8	3.7	56.1
22	Textile mill products -----	-	16	12	1.0	9.8	0.8	1.7	6.8	17.5	23.2	40.4	2.5	0.9	9.1
2241	Narrow fabric mills -----	-	9	5	0.6	7.2	0.5	1.1	4.7	13.2	16.9	30.0	(D)	(NA)	(NA)
	Coventry town -----	-	54	10	1.7	19.6	1.3	2.3	12.2	37.9	51.6	67.2	3.3	2.1	28.4
22	Textile mill products -----	-	13	5	0.6	4.8	0.5	0.9	3.6	9.3	7.0	15.7	(D)	1.0	12.8
	Cranston -----	-	203	59	6.6	76.0	4.6	8.7	42.8	137.1	165.6	299.2	12.2	6.5	112.0
20	Food and kindred products --	E1	18	5	0.6	7.8	0.5	0.8	6.1	12.7	35.0	47.6	0.4	0.9	19.1
33	Primary metal industries ----	-	11	3	0.6	6.3	0.5	1.0	5.4	11.1	15.0	25.8	0.8	1.0	24.8
35	Machinery, except electrical --	-	22	8	0.7	10.6	0.5	1.2	6.4	21.0	19.0	38.9	3.1	0.6	12.2
39	Miscellaneous manufacturing industries -----	E1	77	23	1.3	10.9	1.1	1.8	6.6	30.4	22.6	51.8	0.7	1.1	13.1
391	Jewelry, silverware, and plated ware -----	E1	32	10	0.6	4.5	0.4	0.7	2.4	12.4	13.7	25.0	0.2	(NA)	(NA)
396	Costume jewelry and notions -----	-	30	12	0.7	5.8	0.6	1.0	3.8	16.9	8.3	25.0	0.4	(NA)	(NA)
3961	Costume jewelry -----	-	29	12	0.7	5.6	0.6	1.0	3.7	16.5	8.1	24.4	0.4	(NA)	(NA)
	Cumberland town -----	-	40	22	3.0	31.2	2.5	4.9	23.2	58.9	82.6	142.2	7.5	2.9	37.9
22	Textile mill products -----	-	7	5	1.0	8.8	0.8	1.6	7.3	14.1	28.3	42.6	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	4	3	0.5	4.8	0.4	0.8	3.7	9.4	27.1	36.2	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	6	4	0.6	7.1	0.5	1.0	4.9	13.1	8.8	21.7	0.9	0.8	9.2
345	Screw machine products, bolts, etc. -----	-	3	3	0.5	5.7	0.4	0.8	4.0	10.1	7.2	17.1	(D)	(NA)	(NA)
	East Greenwich town -----	-	33	7	2.7	37.7	1.9	3.3	23.5	66.2	54.1	119.7	1.5	1.5	26.1
	East Providence -----	-	136	48	8.7	80.9	5.9	10.7	52.4	169.2	165.9	325.9	8.2	7.1	99.7
26	Paper and allied products ---	-	7	4	0.6	7.4	0.5	1.1	5.0	16.8	17.8	34.9	1.1	0.7	10.6
30	Rubber and miscellaneous plastics products -----	E1	15	5	0.5	4.6	0.4	0.7	3.0	11.6	13.2	24.8	1.4	(NA)	(NA)
35	Machinery, except electrical --	E1	22	6	0.6	10.0	0.4	0.6	6.0	13.6	14.7	27.2	0.3	0.5	6.3
39	Miscellaneous manufacturing industries -----	-	25	10	4.3	24.7	2.5	4.3	16.0	61.4	49.7	106.5	2.1	1.8	29.0
391	Jewelry, silverware, and plated ware -----	-	10	4	3.2	14.6	1.8	3.1	10.4	33.7	31.0	61.4	(D)	(NA)	(NA)
396	Costume jewelry and notions -----	-	9	5	1.0	9.5	0.6	1.1	5.1	26.4	17.8	42.9	(D)	(NA)	(NA)
	Johnston town -----	-	147	23	1.8	15.2	1.6	2.7	10.3	29.8	31.5	61.1	1.3	0.9	10.6
39	Miscellaneous manufacturing industries -----	E1	82	8	0.9	6.3	0.8	1.3	4.2	11.9	12.8	24.5	0.4	(NA)	(NA)
396	Costume jewelry and notions -----	-	25	6	0.6	4.0	0.5	0.9	2.7	6.6	7.2	13.7	0.3	(NA)	(NA)
3961	Costume jewelry -----	-	25	6	0.6	4.0	0.5	0.9	2.7	6.6	7.2	13.7	0.3	(NA)	(NA)
	Lincoln town -----	-	71	31	3.7	40.4	3.0	5.7	27.1	103.3	111.5	210.0	17.6	2.7	47.8
33	Primary metal industries ----	-	7	4	0.7	8.7	0.4	0.9	5.3	14.9	37.4	51.4	0.6	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities and Towns: 1977 and 1972—Con.

[Includes cities and towns with 450 employees or more and industry groups and industries with 450 employees or more within cities and towns, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City, town, and industry	1977												1972	
		E¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als² (million dollars)	Value of ship- ments² (million dollars)	New capital expendi- tures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Lincoln town—Con.														
39	Miscellaneous manufacturing industries -----	-	6	4	1.6	14.8	1.3	2.4	10.8	47.5	31.0	77.0	5.0	(NA)	(NA)
	North Providence town-----	-	99	21	2.2	20.2	1.9	3.7	15.0	41.3	30.2	70.5	1.6	4.8	64.6
39	Miscellaneous manufacturing industries -----	E2	50	13	0.9	6.6	0.8	1.2	4.4	14.4	13.3	27.3	0.3	1.1	19.4
396	Costume jewelry and notions -----	E1	16	7	0.5	3.3	0.4	0.6	2.2	6.3	6.8	12.9	0.2	(NA)	(NA)
3961	Costume jewelry -----	E1	16	7	0.5	3.3	0.4	0.6	2.2	6.3	6.8	12.9	0.2	(NA)	(NA)
	North Smithfield town-----	-	26	5	1.9	17.3	1.4	2.6	9.1	66.1	30.8	95.8	(D)	2.7	77.2
	Pawtucket -----	-	277	122	16.4	162.9	12.9	24.5	106.8	380.4	509.8	882.2	14.5	16.8	240.0
20	Food and kindred products --	-	12	5	1.3	14.8	0.8	1.5	7.0	27.3	52.2	79.0	1.1	1.0	10.0
22	Textile mill products -----	-	40	27	3.0	25.6	2.6	5.1	18.8	45.2	51.0	96.6	4.1	5.3	63.2
2241	Narrow fabric mills -----	-	13	9	1.4	10.9	1.3	2.5	9.1	17.7	22.5	40.5	1.1	(NA)	(NA)
229	Miscellaneous textile goods -----	-	11	8	0.9	8.5	0.7	1.4	5.1	18.1	20.1	37.7	1.8	(NA)	(NA)
23	Apparel and other textile products -----	E1	12	9	0.5	3.8	0.4	0.6	2.4	16.7	12.8	28.6	0.2	(NA)	(NA)
26	Paper and allied products ---	-	13	9	0.8	7.4	0.6	1.2	5.2	13.6	14.7	29.0	0.4	1.1	10.6
265	Paperboard containers and boxes -----	-	6	6	0.6	5.9	0.5	1.0	4.4	10.5	10.2	21.3	0.3	(NA)	(NA)
27	Printing and publishing -----	-	20	9	0.9	8.4	0.6	1.2	5.1	21.1	8.9	29.6	0.5	0.8	11.0
33	Primary metal industries -----	-	13	6	3.6	42.5	2.8	6.2	29.2	121.8	231.5	347.6	3.6	2.3	48.0
335	Nonferrous rolling and drawing -----	-	5	4	3.3	39.3	2.6	5.8	27.1	114.9	218.6	328.2	3.5	(NA)	(NA)
3357	Nonferrous wire drawing and insulating -----	-	5	4	3.3	39.3	2.6	5.8	27.1	114.9	218.6	328.2	3.5	(NA)	(NA)
34	Fabricated metal products ---	E1	38	11	1.2	11.7	1.0	1.9	7.8	17.0	22.5	39.6	0.9	1.2	13.3
347	Metal services, n.e.c. -----	E2	17	6	0.7	5.0	0.6	1.1	3.6	7.6	3.3	10.9	0.3	(NA)	(NA)
3471	Plating and polishing -----	E2	14	4	0.6	4.4	0.5	0.9	3.2	6.5	2.9	9.4	0.3	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	56	25	3.1	26.2	2.6	4.1	18.3	63.4	59.8	122.2	1.5	3.4	54.6
391	Jewelry, silverware, and plated ware -----	E1	20	9	0.7	6.5	0.6	1.2	4.5	13.3	14.4	27.6	0.3	(NA)	(NA)
3915	Jewelers' materials and lapidary work -----	E1	9	3	0.5	4.2	0.4	0.8	2.9	8.8	10.2	18.9	0.1	(NA)	(NA)
396	Costume jewelry and notions -----	-	18	11	1.1	8.2	0.9	1.5	6.0	26.1	17.1	42.8	0.9	(NA)	(NA)
3961	Costume jewelry -----	-	17	11	1.0	8.0	0.9	1.5	5.8	25.8	16.7	42.0	0.9	(NA)	(NA)
	Providence -----	-	1 177	297	35.5	375.3	26.6	49.2	221.4	736.2	637.4	1 369.6	32.5	35.0	526.5
22	Textile mill products -----	-	14	7	1.0	9.6	0.8	1.8	6.8	24.4	31.9	56.1	0.4	0.8	9.2
26	Paper and allied products ---	E1	18	8	0.6	5.6	0.4	0.8	3.7	8.6	10.2	18.7	0.6	(NA)	(NA)
27	Printing and publishing -----	-	87	17	2.7	42.2	1.7	3.0	23.7	71.5	48.5	120.1	4.9	3.4	67.6
275	Commercial printing -----	E1	52	9	1.1	16.8	0.9	1.8	12.5	24.5	30.1	54.8	3.0	(NA)	(NA)
2752	Commercial printing, lithographic -----	E3	24	6	0.5	5.5	0.4	0.7	3.7	8.6	6.4	15.3	0.3	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	E1	23	8	0.5	4.8	0.4	0.8	3.4	12.8	7.8	20.5	0.7	0.6	5.7
34	Fabricated metal products ---	E1	189	50	3.8	37.3	3.2	6.2	26.0	65.3	47.0	112.6	2.8	3.4	38.8
346	Metal forgings and stampings -----	-	20	11	0.6	7.2	0.5	1.1	4.7	12.2	11.1	23.2	0.6	(NA)	(NA)
347	Metal services, n.e.c. -----	E4	111	20	1.3	11.3	1.1	2.0	7.9	20.4	10.2	30.5	0.9	(NA)	(NA)
3471	Plating and polishing -----	E3	77	14	0.9	8.8	0.8	1.5	6.2	16.4	7.7	24.1	0.7	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities and Towns: 1977 and 1972—Con.

[Includes cities and towns with 450 employees or more and industry groups and industries with 450 employees or more within cities and towns, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City, town, and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Providence—Con.														
34	Fabricated metal products—Con.														
349	Miscellaneous fabricated metal products -----	E1	18	8	0.5	4.9	0.4	0.9	3.4	8.7	5.6	14.2	0.3	(NA)	(NA)
35	Machinery, except electrical --	E1	76	8	1.4	18.8	1.0	2.0	12.0	32.0	13.8	44.5	1.2	1.3	20.1
354	Metalworking machinery ---	-	38	6	1.1	15.1	0.8	1.5	9.6	25.6	10.3	34.6	0.9	(NA)	(NA)
36	Electric and electronic equipment -----	-	19	11	2.5	26.0	1.8	3.2	16.2	44.3	49.0	93.3	2.6	2.5	40.6
364	Electric lighting and wiring equipment -----	-	7	5	1.5	16.0	1.0	1.7	8.8	23.4	35.8	58.8	(D)	(NA)	(NA)
367	Electronic components and accessories -----	E2	9	4	0.6	4.6	0.5	0.8	3.2	6.6	5.1	12.0	0.6	(NA)	(NA)
38	Instruments and related products -----	-	15	7	2.6	27.6	1.9	3.8	17.5	65.4	33.0	96.6	(D)	2.8	39.1
39	Miscellaneous manufacturing industries -----	-	601	149	17.6	165.0	13.9	24.9	100.8	373.5	337.0	709.6	13.5	15.7	226.0
391	Jewelry, silverware, and plated ware -----	-	313	71	8.4	87.5	6.4	11.6	51.8	208.7	213.4	422.0	9.5	(NA)	(NA)
3911	Jewelry, precious metal --	-	193	45	5.6	55.3	4.3	7.8	33.3	142.9	135.4	272.4	7.9	(NA)	(NA)
3915	Jewelers' materials and lapidary work -----	E1	117	24	2.0	20.9	1.7	3.0	12.9	44.7	64.6	108.2	1.6	(NA)	(NA)
396	Costume jewelry and notions -----	-	190	67	8.5	71.5	7.0	12.3	45.5	153.5	114.7	267.1	3.6	(NA)	(NA)
3961	Costume jewelry -----	-	180	61	7.5	61.7	6.3	11.0	41.0	136.3	103.5	238.1	2.9	(NA)	(NA)
3964	Needles, pins, and fasteners -----	-	9	5	0.9	8.9	0.6	1.1	3.9	15.6	10.1	26.1	(D)	(NA)	(NA)
399	Miscellaneous manufactures -----	E4	86	7	0.5	4.2	0.4	0.7	2.6	7.0	6.5	13.6	0.2	(NA)	(NA)
--	Administrative and auxiliary --	-	8	5	0.9	19.4	-	-	-	-	-	-	-	(NA)	(NA)
	Smithfield town -----	-	70	17	1.5	18.6	1.2	2.2	11.9	40.9	18.9	59.4	1.8	1.3	22.9
35	Machinery, except electrical --	E1	16	6	0.6	8.4	0.4	0.8	4.8	15.1	4.5	19.3	0.6	(NA)	(NA)
	Warren town -----	-	36	13	2.6	22.3	2.2	3.9	14.7	42.2	56.4	105.7	1.6	2.3	39.4
	Warwick -----	-	194	60	7.8	87.3	5.7	10.9	51.0	207.8	172.1	368.5	7.1	6.6	100.1
34	Fabricated metal products ---	E1	32	9	0.7	9.8	0.4	0.8	4.4	17.8	11.1	26.7	0.8	1.0	16.3
35	Machinery, except electrical --	-	32	5	1.6	21.5	0.8	1.7	8.3	40.9	15.8	59.5	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	52	17	1.2	10.1	1.0	1.8	6.5	19.3	35.6	54.4	0.7	(NA)	(NA)
391	Jewelry, silverware, and plated ware -----	-	27	10	0.6	5.5	0.6	0.9	4.0	9.4	24.2	34.0	0.5	(NA)	(NA)
3911	Jewelry, precious metal --	-	14	7	0.5	3.9	0.4	0.7	3.0	6.3	13.4	20.4	0.2	(NA)	(NA)
396	Costume jewelry and notions -----	E1	11	5	0.5	3.7	0.4	0.7	2.1	7.5	10.3	17.0	0.1	(NA)	(NA)
3961	Costume jewelry -----	E1	11	5	0.5	3.7	0.4	0.7	2.1	7.5	10.3	17.0	0.1	(NA)	(NA)
	Westerly town -----	-	27	11	1.3	14.0	1.0	2.0	9.7	25.6	29.4	54.2	1.8	(D)	(D)
22	Textile mill products -----	-	5	5	0.8	9.5	0.7	1.3	6.8	14.9	22.0	36.6	1.5	(NA)	(NA)
	West Warwick town -----	-	75	30	3.1	29.0	2.3	4.4	18.3	55.7	56.9	111.7	1.8	2.6	34.7
22	Textile mill products -----	E2	14	9	0.7	6.0	0.6	1.2	4.7	9.3	8.7	18.0	0.4	0.6	7.7
	Woonsocket -----	-	126	56	5.2	46.9	4.5	8.3	34.5	91.9	96.5	185.7	5.4	5.8	59.6
22	Textile mill products -----	E2	32	21	1.1	9.3	0.9	1.8	7.1	16.4	14.5	30.8	0.9	1.8	18.7
23	Apparel and other textile products -----	E5	14	11	1.0	7.1	0.9	1.5	5.4	12.2	11.0	23.2	0.2	1.2	9.1
30	Rubber and miscellaneous plastics products -----	-	5	4	0.6	6.4	0.5	1.1	4.6	12.8	13.3	25.2	(D)	(NA)	(NA)
3079	Miscellaneous plastics products -----	-	6	4	0.6	6.4	0.5	1.1	4.6	12.8	13.3	25.2	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	11	5	0.5	3.6	0.4	0.8	2.7	16.2	17.2	31.9	0.5	0.6	9.3

Note: "City" or "town" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B). - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

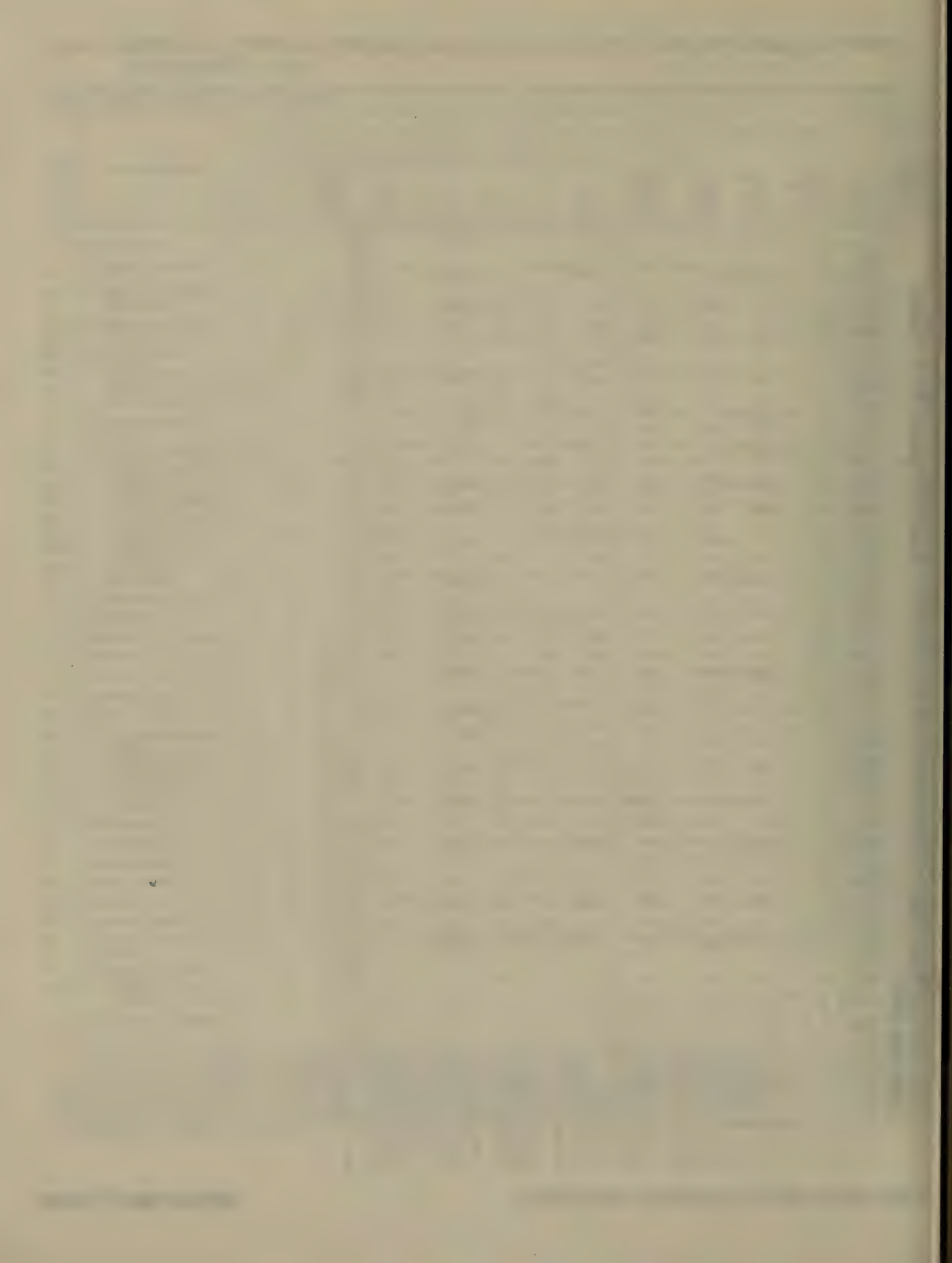
Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO ²
RHODE ISLAND	3107	154	-	200	69	52	36	57	206	67	2	110	24	50	110	414	319	67	46	48	1051	25
1 TO 4 EMPLOYEES	1308	78	-	38	16	35	21	11	103	27	-	25	6	18	36	159	139	16	16	17	542	5
5 TO 9 EMPLOYEES	448	24	-	21	7	3	3	6	32	11	-	25	2	10	21	68	63	9	7	5	128	3
10 TO 19 EMPLOYEES	406	15	-	21	13	7	4	10	26	10	1	18	1	4	15	75	57	7	6	4	107	5
20 TO 49 EMPLOYEES	455	21	-	48	15	6	5	16	23	6	-	16	10	8	14	67	33	11	7	6	138	5
50 TO 99 EMPLOYEES	233	9	-	35	10	-	2	6	13	4	1	13	1	4	9	24	15	10	5	4	64	4
100 TO 249 EMPLOYEES	163	4	-	27	7	1	-	7	6	6	-	10	2	2	6	15	8	7	3	4	46	2
250 TO 499 EMPLOYEES	56	3	-	7	-	-	-	1	2	1	-	1	1	3	5	3	1	2	2	4	19	-
500 TO 999 EMPLOYEES	25	-	-	3	1	-	-	1	-	2	-	1	-	1	2	1	1	3	3	5	1	-
1000 TO 2499 EMPLOYEES	12	-	-	-	-	-	-	-	1	-	-	-	1	-	2	1	2	2	-	1	2	-
2500 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BRISTOL COUNTY	89	10	-	8	5	1	2	1	3	3	-	12	2	2	3	6	16	1	8	-	6	-
1 TO 4 EMPLOYEES	54	8	-	2	3	1	2	-	1	3	-	6	1	1	2	5	10	-	4	-	4	-
5 TO 9 EMPLOYEES	23	2	-	3	2	-	-	1	1	-	-	5	-	1	1	1	5	1	3	-	1	-
10 TO 19 EMPLOYEES	9	-	-	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
20 TO 49 EMPLOYEES	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KENT COUNTY	361	23	-	34	6	11	5	4	26	9	-	10	-	7	17	45	58	12	4	9	80	1
1 TO 4 EMPLOYEES	252	19	-	16	3	10	4	2	21	6	-	6	-	3	9	31	49	6	4	5	57	1
5 TO 9 EMPLOYEES	75	4	-	15	1	-	-	1	4	-	-	3	-	-	6	11	6	4	-	1	19	-
10 TO 19 EMPLOYEES	22	-	-	3	2	1	-	1	1	2	-	1	-	2	1	-	2	1	-	2	3	-
20 TO 49 EMPLOYEES	12	-	-	-	-	-	1	-	-	-	-	-	-	2	1	3	1	1	-	1	1	-
250 EMPLOYEES AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEWPORT COUNTY	64	6	-	1	5	2	-	-	9	-	-	2	-	2	3	1	4	6	13	1	8	1
1 TO 4 EMPLOYEES	45	5	-	1	3	1	-	-	8	-	-	1	-	2	2	-	4	2	9	-	7	-
5 TO 9 EMPLOYEES	11	1	-	2	1	-	-	-	1	-	-	-	-	-	-	-	-	2	1	1	1	-
10 TO 19 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	2	-	-	-
20 TO 49 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-
250 EMPLOYEES AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PROVIDENCE COUNTY	2485	103	-	139	51	31	28	49	165	48	2	81	21	32	85	357	229	44	17	37	946	20
1 TO 4 EMPLOYEES	1740	76	-	54	26	26	21	24	129	34	1	50	7	20	58	262	190	23	9	20	701	9
5 TO 9 EMPLOYEES	553	20	-	61	19	5	7	19	28	8	1	25	11	10	15	79	32	11	7	8	179	8
10 TO 19 EMPLOYEES	120	4	-	17	5	-	-	5	5	4	-	3	2	5	5	14	5	2	2	2	42	2
20 TO 49 EMPLOYEES	172	3	-	7	1	-	-	1	3	2	-	3	1	2	7	2	2	5	1	7	24	1
250 EMPLOYEES AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WASHINGTON COUNTY	108	12	-	18	2	7	1	3	3	7	-	5	1	7	2	5	12	4	4	1	11	3
1 TO 4 EMPLOYEES	71	9	-	7	1	7	1	1	1	5	-	5	1	6	1	4	6	1	3	1	8	3
5 TO 9 EMPLOYEES	26	3	-	4	1	-	-	1	2	-	-	-	-	1	1	-	5	3	1	-	2	-
10 TO 19 EMPLOYEES	27	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 49 EMPLOYEES	4	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities and towns are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

1. Only those counties and size classes that include data for manufacturing establishments are shown.



South Carolina

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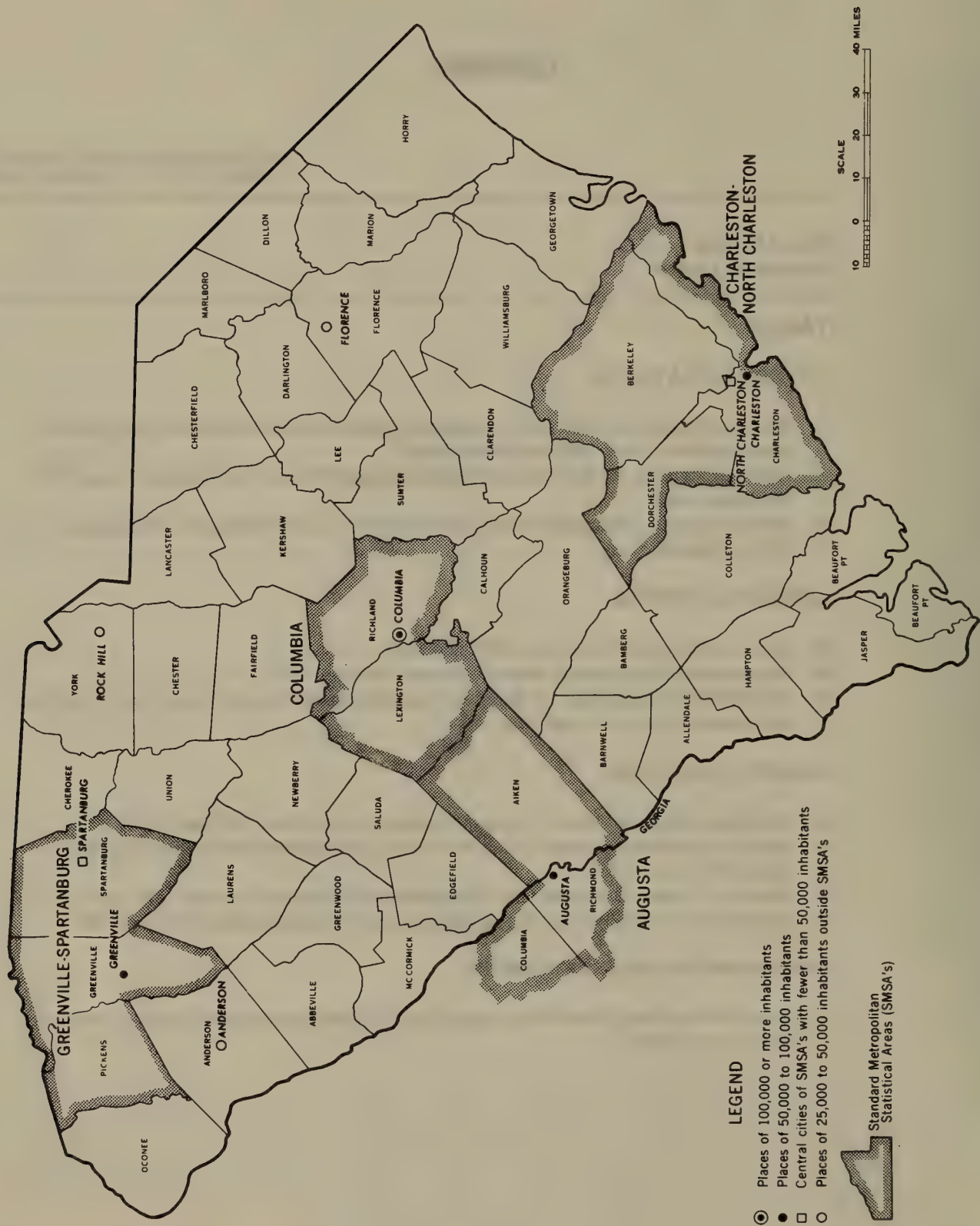
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SOUTH CAROLINA



SUMMARY OF FINDINGS

In 1977, 374.2 thousand persons were employed in South Carolina's manufacturing establishments. This figure represented an increase of 8 percent from the 1972 figure of 345.1 thousand workers.

The total value added by manufacture for the State amounted to \$8,186 million in 1977, an increase of approximately 65 percent from the 1972 figure of \$4,966 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were textile mill products; apparel and other textile products; chemical and allied products; and machinery, except electrical. They accounted for approximately 65 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 68 percent of the State's employment.

The most important counties in the State ranked by employment were Greenville, Spartanburg, Anderson, and Aiken. They accounted for approximately 35 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 35 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 2 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
South Carolina:						
1977.....	374.2	3,804.9	365.2	3,663.9	9.0	141.0
1972.....	345.1	2,344.5	337.9	2,265.4	7.2	79.1
1967.....	304.3	1,502.2	298.2	1,452.4	6.1	49.8
1963.....	261.6	1,049.3	258.5	1,030.8	3.2	18.5
STANDARD METROPOLITAN STATISTICAL AREAS						
Augusta, Ga.-S.C.:						
1977.....	34.7	428.0	33.4	410.1	1.3	17.9
1972.....	30.4	250.1	29.8	243.8	.6	6.3
1967.....	29.3	181.1	28.7	176.9	.6	4.2
1963.....	25.2	135.6	24.6	132.0	.6	3.6
Charleston-North Charleston:						
1977.....	17.6	205.8	17.4	203.1	.2	2.7
1972.....	15.2	114.4	15.1	112.7	.1	1.7
Columbia:						
1977.....	24.9	277.7	(D)	(D)	(D)	(D)
1972.....	21.6	155.2	(D)	(D)	(D)	(D)
1967.....	18.1	87.9	(D)	(D)	(D)	(D)
1963.....	14.5	56.7	(D)	(D)	(D)	(D)
Greenville-Spartanburg:						
1977.....	104.8	1,071.9	100.1	994.8	4.7	77.1
1972.....	98.2	682.0	94.1	634.3	4.1	47.7

(D) Withheld to avoid disclosing operations of individual companies.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers							Comparative indexes and U.S. employment			
												United States			
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	Percent of U.S. manufacturing employment (per cent)	Index of State employment (1977=100)	Index of manufacturing employment change (1977=100)	U.S. manufacturing employment (1,000)
SOUTH CAROLINA															
1977 CENSUS.	4 229	1 560	374.2	3 804.9	299.8	594.0	2 640.3	8 186.1	10 855.2	18 882.4	788.6	1.91	100	100	19 596.9
1976 ASM....	(NA)	(NA)	371.3	3 406.2	299.2	591.6	2 382.5	7 163.9	9 601.3	16 601.1	868.0	1.98	99	96	18 753.0
1975 ASM....	(NA)	(NA)	340.0	2 835.8	270.7	513.7	1 930.7	5 933.9	7 788.2	13 715.0	807.0	1.86	91	94	18 302.2
1974 ASM....	(NA)	(NA)	368.1	2 850.7	295.6	581.5	1 993.2	6 374.0	7 992.1	14 037.1	848.6	1.85	98	102	19 844.8
1973 ASM....	(NA)	(NA)	365.6	2 627.4	299.2	606.2	1 884.8	5 853.1	6 682.8	12 472.1	595.9	1.84	98	102	19 897.9
1972 CENSUS.	3 719	1 441	345.1	2 344.5	282.7	581.6	1 679.4	4 965.6	5 795.3	10 721.1	506.8	1.81	92	98	19 028.7
1971 ASM....	(NA)	(NA)	324.4	2 026.6	264.5	535.5	1 448.7	4 234.5	4 801.3	9 011.3	499.3	1.77	87	94	18 363.1
1970 ASM....	(NA)	(NA)	323.8	1 924.6	262.6	534.9	1 366.9	3 767.7	4 288.2	8 029.4	370.5	1.68	87	99	19 217.2
1969 ASM....	(NA)	(NA)	338.1	1 891.5	278.0	570.5	1 377.4	3 672.1	4 236.6	7 847.3	358.9	1.69	90	103	20 035.5
1968 ASM....	(NA)	(NA)	319.7	1 698.0	265.7	553.5	1 255.6	3 394.0	3 852.9	7 150.9	401.0	1.64	85	100	19 527.6
1967 CENSUS.	3 465	1 251	304.3	1 502.2	253.8	523.0	1 106.6	3 030.3	3 448.5	6 440.7	416.6	1.57	81	99	19 323.2
1966 ASM....	(NA)	(NA)	297.7	1 408.7	248.8	529.4	1 053.8	2 979.6	3 474.9	6 385.8	400.2	1.56	80	98	19 024.5
1965 ASM....	(NA)	(NA)	283.7	1 277.8	237.0	504.2	960.3	2 777.6	3 103.8	5 804.5	282.9	1.58	76	92	18 010.2
1964 ASM....	(NA)	(NA)	270.0	1 150.4	227.9	477.6	869.8	2 387.1	2 859.7	5 232.9	228.0	1.56	72	89	17 268.5
1963 CENSUS.	3 057	1 076	261.6	1 049.3	221.9	455.3	797.2	2 111.1	(NA)	(NA)	179.8	1.54	70	87	16 958.4
GREENVILLE-SPARTANBURG SMSA															
1977 CENSUS.	983	428	104.8	1 071.9	81.2	161.6	715.1	2 129.7	3 003.8	5 086.0	212.0	.54	100	100	19 596.9
1976 ASM....	(NA)	(NA)	104.9	969.7	82.0	159.9	648.6	1 921.5	2 645.1	4 546.9	236.3	.56	100	96	18 753.0
1975 ASM....	(NA)	(NA)	98.3	818.7	76.1	138.9	526.4	1 657.7	2 051.6	3 682.0	178.3	.54	94	94	18 302.2
1974 ASM....	(NA)	(NA)	105.6	837.0	82.4	161.6	552.9	1 799.5	2 162.0	3 886.0	193.9	.53	101	102	19 844.8
1973 ASM....	(NA)	(NA)	105.1	767.8	83.3	171.6	529.8	1 792.7	1 899.0	3 671.8	145.1	.53	100	102	19 897.9
1972 CENSUS.	837	398	98.2	682.0	77.7	162.0	464.2	1 458.1	1 676.9	3 096.5	194.7	.52	94	98	19 028.7

(NA) Not available.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
SOUTH CAROLINA									
1977 CENSUS.....	10 169	80	1 981	4.44	57	78	21 878	46	13.78
1976 ASM.....	9 174	81	1 977	4.03	58	78	19 294	48	12.11
1975 ASM.....	8 341	80	1 898	3.76	57	77	17 453	48	11.55
1974 ASM.....	7 744	80	1 967	3.43	57	77	17 316	45	10.96
1973 ASM.....	7 187	82	2 026	3.11	54	75	16 010	45	9.66
1972 CENSUS.....	6 794	82	2 057	2.89	54	76	14 389	47	8.54
1971 ASM.....	6 247	82	2 025	2.71	53	76	13 053	48	7.91
1970 ASM.....	5 942	81	2 037	2.56	53	77	11 636	51	7.04
1969 ASM.....	5 594	82	2 052	2.41	54	78	10 861	52	6.44
1968 ASM.....	5 311	53	2 083	2.27	54	78	10 616	50	6.13
1967 CENSUS.....	4 937	83	2 061	2.12	54	77	9 958	50	5.79
1966 ASM.....	4 732	84	2 128	1.99	54	76	10 009	47	5.63
1965 ASM.....	4 504	84	2 127	1.90	53	75	9 791	46	5.51
1964 ASM.....	4 261	84	2 096	1.82	55	77	8 841	48	5.00
1963 CENSUS.....	4 011	85	2 052	1.75	(NA)	(NA)	8 070	50	4.64
GREENVILLE-SPARTANBURG SMSA									
1977 CENSUS.....	10 227	77	1 990	4.42	59	80	20 319	50	13.18
1976 ASM.....	9 244	78	1 950	4.06	58	80	18 317	50	12.02
1975 ASM.....	8 329	77	1 825	3.79	56	78	16 864	49	11.93
1974 ASM.....	7 926	78	1 961	3.42	56	77	17 041	47	11.14
1973 ASM.....	7 305	79	2 060	3.09	52	73	17 057	43	10.45
1972 CENSUS.....	6 945	79	2 085	2.87	54	76	14 848	47	9.00

Note: For qualifications to data, see footnotes on table 2a.

(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹ -----	number -----	4 229	3 719
With 1 to 19 employees -----	do -----	2 669	2 278
With 20 to 99 employees -----	do -----	765	889
With 100 employees or more -----	do -----	795	752
All employees, average for year ¹ -----	1,000 -----	374.2	345.1
Payroll for year, all employees ¹ -----	mil. dollars --	3 804.9	2 344.5
Production workers:			
Average for year -----	1,000 -----	299.8	282.7
March -----	do -----	294.7	277.2
May -----	do -----	299.7	279.4
August -----	do -----	302.3	285.4
November -----	do -----	302.2	288.8
Hours -----	millions -----	594.0	581.8
January to March -----	do -----	145.3	142.7
April to June -----	do -----	152.7	145.9
July to September -----	do -----	145.6	142.6
October to December -----	do -----	150.3	150.4
Wages -----	mil. dollars --	2 640.3	1 679.4
Cost of materials, etc. ² -----	do -----	10 855.2	5 795.3
Materials, parts, containers, etc., consumed -----	do -----	9 491.4	5 149.5
Resales -----	do -----	388.8	218.5
Fuels consumed -----	do -----	320.2	99.9
Purchased electric energy -----	do -----	334.4	120.5
Contract work -----	do -----	322.5	206.9
Value of shipments, including resales ² -----	do -----	18 882.4	10 721.1
Value of resales -----	do -----	473.1	272.0
Value added by manufacture -----	do -----	8 186.1	4 965.6
Manufacturers' inventories:			
Beginning of year -----	do -----	2 352.8	1 364.2
Finished products -----	do -----	836.3	521.0
Work in process -----	do -----	683.5	410.1
Materials, supplies, fuel, etc. -----	do -----	832.9	433.1
End of year -----	do -----	2 613.5	1 420.7
Finished products -----	do -----	900.6	506.0
Work in process -----	do -----	783.7	446.4
Materials, supplies, fuel, etc. -----	do -----	929.2	468.3
Capital expenditures for plant and equipment -----	do -----	831.4	535.0
New capital expenditures -----	do -----	788.6	506.8
New buildings and other structures -----	do -----	135.4	106.9
New machinery and equipment -----	do -----	653.2	400.0
Used capital expenditures -----	do -----	42.7	28.2

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Including central administrative offices and auxiliaries (for definition, see appendix B).

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	77.9	5
Beginning of year.....	8,476.2	1	Buildings and other structures.....	28.9	11
New capital expenditures.....	785.1	2	Machinery and equipment.....	49.0	3
Used capital expenditures.....	56.0	11			
Retirements.....	222.1	2	Depreciation charges during 1977:		
End of year.....	9,095.3	1	Total.....	550.7	1
Buildings and other structures:			Buildings and other structures.....	83.8	2
Beginning of year.....	1,973.0	1	Machinery and equipment.....	466.9	1
New capital expenditures.....	135.1	3			
Used capital expenditures.....	(7.7)	17	Supplemental labor costs:		
Retirements.....	31.5	3	Total.....	603.6	1
End of year.....	2,084.4	1	Legal costs.....	280.6	1
Machinery and equipment:			Voluntary costs.....	323.0	1
Beginning of year.....	6,503.3	1			
New capital expenditures.....	650.0	1	Purchased services:		
Automobiles, trucks, etc., for highway use...	13.7	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	32.3	(NA)	Buildings and other structures.....	(31.0)	(A)
All other.....	555.5	(NA)	Response coverage ratio (percent).....	55	(X)
New machinery and equipment, n.s.k.....	48.5	(NA)	Machinery.....	335.9	10
Used capital expenditures.....	48.3	11	Response coverage ratio (percent).....	57	(X)
Retirements.....	190.8	2	Cost of purchased communication services.....	(92.5)	(A)
End of year.....	7,010.8	1	Response coverage ratio (percent).....	65	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

(A) Indicates standard errors of 100 percent or more. Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind. (S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area		1977										1972		
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
South Carolina -----	-	4 229	1 560	374.2	3 504.9	299.8	594.0	2 640.3	8 186.1	10 855.2	18 882.4	788.8	345.1	4 965.6
STANDARD METROPOLITAN STATISTICAL AREAS														
Augusta, Ga.-S.C. -----	-	302	131	34.7	428.0	24.9	50.6	257.7	1 090.5	1 102.3	2 174.7	177.5	30.4	578.2
Portion in South Carolina -----	E1	95	47	19.2	250.2	13.4	27.2	146.3	611.0	346.6	950.9	15.0	16.2	320.9
Portion in Georgia -----	-	207	84	15.5	177.8	11.4	23.4	111.5	479.5	755.7	1 223.9	162.5	14.2	257.3
Charleston-North Charleston -----	-	323	103	17.6	205.8	12.8	24.8	126.5	453.4	612.9	1 042.8	91.8	15.2	263.6
Columbia -----	-	391	145	24.9	277.7	18.1	35.3	161.1	647.6	702.5	1 324.6	91.2	21.6	315.9
Greenville-Spartanburg -----	-	983	428	104.8	1 071.9	81.2	161.6	715.1	2 129.7	3 003.8	5 086.0	212.0	98.2	1 458.1
COUNTIES														
Abbeville -----	-	34	16	5.3	49.5	4.7	9.2	39.8	83.3	161.7	246.5	7.2	5.8	75.3
Aiken -----	-	95	47	19.2	250.2	13.4	27.2	146.3	611.0	346.6	950.9	15.0	16.2	320.9
Allendale -----	-	23	9	0.8	6.1	0.7	1.5	4.7	14.3	21.8	36.2	(D)	0.8	7.0
Anderson -----	-	167	87	24.2	237.9	20.4	41.5	179.6	433.8	541.7	980.4	46.1	22.4	260.9
Bamberg -----	-	41	15	1.6	12.2	1.4	2.6	8.4	44.2	42.0	86.7	1.7	1.7	20.5
Barnwell -----	-	21	12	3.1	25.6	2.7	5.2	19.9	56.1	63.3	117.2	3.2	2.3	25.4
Beaufort -----	E1	48	15	1.4	10.2	1.1	2.0	7.2	17.2	17.3	32.7	3.5	1.0	6.8
Berkeley -----	-	52	19	3.8	36.7	3.2	5.6	27.0	120.4	105.2	210.1	16.4	2.7	52.0
Bethoun -----	-	15	5	0.4	2.8	0.3	0.6	1.9	-1.9	45.0	43.2	0.2	0.2	2.0
Charleston -----	-	209	64	11.7	149.3	7.9	15.8	84.8	291.1	458.5	742.1	68.4	10.3	179.5
Cherokee -----	-	57	29	6.1	62.4	5.1	10.6	46.6	110.9	194.2	304.8	20.7	6.7	76.8
Chester -----	-	70	31	7.5	72.5	6.7	13.3	59.8	154.5	180.1	338.8	6.2	6.9	110.4
Chesterfield -----	-	76	35	5.8	49.8	4.9	9.6	36.6	122.6	210.1	325.8	33.9	5.7	59.9
Clarendon -----	-	40	13	1.8	13.7	1.6	2.9	9.5	21.5	52.4	80.6	1.7	1.5	15.3
Colleton -----	-	52	13	2.9	23.9	2.6	4.8	19.0	42.7	40.8	81.7	3.5	2.0	20.9
Darlington -----	-	83	31	8.5	106.7	6.7	13.7	71.2	223.2	469.2	689.1	34.1	8.6	136.9
Dillon -----	-	48	18	2.7	22.3	2.2	4.3	15.8	62.5	85.8	146.1	1.8	2.7	34.6
Dorchester -----	-	62	20	2.2	19.8	1.7	3.4	14.6	41.9	49.2	90.5	7.0	2.2	32.2
Edgefield -----	-	52	13	2.1	19.1	1.8	3.6	14.0	41.6	70.1	111.7	1.3	1.7	23.6
Fairfield -----	-	94	8	1.9	15.4	1.6	3.2	11.3	31.4	57.3	88.4	1.0	2.4	18.4
Florence -----	-	142	56	12.0	122.9	9.7	18.5	86.1	332.7	290.5	617.0	21.6	11.5	175.8
Georgetown -----	-	71	18	5.2	61.5	4.5	8.5	48.3	126.5	248.0	372.9	18.2	4.7	80.1
Greenville -----	-	545	237	49.2	504.3	38.0	76.1	339.7	1 110.7	1 406.7	2 491.1	120.2	45.3	720.9
Greenwood -----	-	102	39	12.1	126.3	9.6	19.5	87.4	235.0	406.8	630.9	26.7	12.1	209.9
Hampton -----	-	51	10	1.6	19.9	1.3	2.9	14.4	46.0	75.6	120.5	2.5	1.8	32.9
Horry -----	-	114	29	6.7	51.2	5.8	10.8	39.2	105.6	103.4	212.7	5.8	4.1	38.5
Jasper -----	E6	17	1	0.1	0.6	0.1	0.1	0.5	1.4	1.0	2.4	0.1	0.5	3.6
Kershaw -----	-	93	22	7.9	96.7	6.3	12.4	66.2	302.8	312.7	805.0	11.6	7.1	180.3
Lancaster -----	-	51	17	9.8	89.1	7.9	14.9	64.2	143.0	524.9	657.9	3.1	(D)	(D)
Laurens -----	-	82	28	9.3	92.4	8.1	16.1	73.7	199.4	191.2	388.8	12.0	9.5	143.8
Lee -----	-	20	6	0.8	8.2	0.6	1.4	4.7	20.1	46.4	66.8	0.6	(D)	(D)
Lexington -----	E1	168	65	10.8	116.9	8.6	16.4	76.7	261.5	338.7	589.8	65.5	9.9	157.6
McCormick -----	-	41	3	0.9	8.2	0.8	1.6	6.7	19.0	31.9	51.0	1.1	0.8	10.8
Marion -----	-	43	21	5.4	38.5	4.8	9.3	29.9	106.5	94.3	202.9	4.1	4.9	51.2
Marlboro -----	-	35	19	4.2	35.0	3.5	7.2	27.3	76.5	164.7	242.4	(D)	4.5	48.1
Newberry -----	-	92	22	5.3	47.6	4.8	9.5	39.8	97.0	138.2	234.0	4.7	4.2	42.1
Oconee -----	E2	64	23	6.3	52.8	5.2	10.1	42.6	109.5	75.8	188.5	4.3	6.9	87.3
Orangeburg -----	-	113	37	8.3	80.3	8.8	14.1	56.4	208.5	278.9	480.5	8.3	7.1	117.6
Pickens -----	-	117	47	17.5	166.6	14.9	29.3	129.4	338.7	481.3	796.0	39.1	14.9	217.6
Richland -----	-	223	80	14.1	160.8	9.6	18.9	84.4	366.1	383.8	734.7	25.7	11.7	158.3
Saluda -----	-	43	9	1.4	10.9	1.2	2.2	8.5	23.0	50.4	73.2	(D)	1.0	9.4
Spartanburg -----	-	321	144	38.2	401.1	28.4	56.2	246.1	680.4	1 115.8	1 799.0	52.7	38.0	519.7
Sumter -----	-	74	34	8.7	73.6	7.3	14.5	57.0	164.2	256.2	418.7	8.4	7.5	85.1
Union -----	-	43	20	7.5	70.5	6.4	13.0	54.0	150.6	151.5	298.7	8.2	6.9	84.4
Williamsburg -----	-	46	16	2.5	21.8	2.2	4.3	16.4	70.4	62.9	130.7	5.7	1.7	26.9
York -----	-	169	57	15.6	161.3	13.0	25.6	121.6	348.4	431.6	773.0	36.1	14.6	178.4
CITIES														
Abbeville -----	-	17	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	36.7
Aiken -----	-	19	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	31.1
Allendale -----	-	11	6	0.7	5.5	0.6	1.3	4.2	12.8	20.1	32.9	2.2	0.8	4.6
Anderson -----	-	82	36	9.1	93.7	7.6	15.6	71.2	163.8	228.6	394.8	25.0	11.4	141.3
Andrews -----	E1	24	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	8.0
Bamberg -----	-	15	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	5.8
Barnwell -----	-	12	7	1.6	15.2	1.3	2.7	11.7	35.8	36.8	72.4	(D)	(D)	(D)
Batesburg -----	-	19	4	0.9	8.7	0.8	1.5	6.4	19.5	20.8	39.4	(D)	0.9	12.1
Belton -----	-	17	10	1.7	14.6	1.5	2.9	12.1	32.1	37.8	71.2	2.5	2.0	19.7
Bennettsville -----	-	21	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	29.5
Camden -----	-	38	8	1.0	9.3	0.9	1.8	7.5	14.6	12.0	27.0	0.5	(D)	(D)
Cayce -----	-	24	12	1.7	21.3	1.3	2.7	14.0	32.9	56.6	88.5	(D)	1.6	20.5
Charleston -----	-	59	18	2.4	30.1	1.3	2.5	13.2	63.6	109.3	173.2	(D)	3.4	56.1
Cheraw -----	-	26	9	1.1	11.3	0.8	1.8	7.8	30.7	74.0	101.8	(D)	1.9	20.1
Chester -----	-	42	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	23.9
Clinton -----	-	17	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	57.7
Clover -----	-	25	9	1.7	14.0	1.5	3.1	12.0	30.5	35.8	66.1	(D)	0.9	3.4
Columbia -----	-	120	33	4.2	46.9	2.9	5.7	26.9	82.3	131.5	214.7	4.3	4.1	(NA)
Conway -----	-	42	14	2.3	18.5	2.0	3.9	14.9	38.2	61.3	104.4	4.1	1.1	11.5
Darlington -----	-	34	7	1.3	12.6	1.2	2.3	10.1	25.9	47.9	70.9	(D)	(D)	(D)
Denmark -----	-	14	5	0.7	5.1	0.6	1.0	3.9	29.8	25.5	55.7	(D)	0.8	12.6
Dillon -----	-	23	10	1.4	11.9	1.2	2.3	8.7	37.3	44.8	80.5	0.9	2.1	27.9
Easley -----	-	51	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.2	59.8
Florence -----	-	59	16	2.3	24.4	1.7	3.3	16.7	57.2	63.2	119.5	2.9	5.4	91.1
Fort Mill -----	-	17	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972		
	E ¹	All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
CITIES—Con.														
Fountain Inn -----	-	19	5	1.1	10.3	1.0	1.9	8.3	15.2	22.7	41.7	0.5	0.7	7.2
Gaffney -----	E7	44	20	3.7	39.7	3.1	6.3	29.3	67.8	125.5	194.9	16.4	4.8	49.5
Georgetown -----	-	45	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	68.5
Goose Creek -----	-	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Great Falls -----	-	9	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Greenville -----	-	203	83	12.4	130.6	8.9	17.3	77.8	221.7	259.1	480.6	17.0	12.3	170.6
Greenwood -----	-	65	23	7.7	83.4	5.9	11.9	53.9	123.1	266.5	380.1	10.5	6.4	117.8
Greer -----	-	41	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	35.0
Hampton -----	-	8	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hartsville -----	E1	35	18	4.0	56.8	2.8	5.7	32.0	80.2	125.2	203.4	(D)	4.7	59.8
Honea Path -----	-	10	5	1.4	12.5	1.2	2.5	10.1	35.3	29.3	84.0	1.0	(D)	(D)
Johnston -----	-	7	4	0.8	6.5	0.7	1.2	4.4	18.9	42.2	60.8	(D)	0.7	7.5
Kingstree -----	-	17	9	1.5	14.8	1.2	2.5	10.5	29.5	46.7	77.4	3.4	1.4	23.8
Lake City -----	-	13	5	0.7	5.6	0.6	1.0	4.3	13.2	13.7	27.5	0.5	1.1	12.8
Lancaster -----	-	30	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Laurens -----	-	36	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	55.0
Liberty -----	-	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Manning -----	E2	24	6	0.6	3.5	0.5	0.8	2.6	5.0	3.5	8.4	0.2	0.6	8.9
Marion -----	-	24	11	2.8	20.1	2.5	4.9	14.9	58.2	42.7	111.2	1.6	2.7	33.4
Mauldin -----	-	23	7	1.5	15.1	1.0	2.0	8.2	73.8	72.9	146.2	(D)	2.1	41.1
Moncks Corner -----	E1	12	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Mullins -----	-	11	5	1.3	8.3	1.2	2.2	7.0	18.3	20.8	41.2	(D)	(D)	(D)
Myrtle Beach -----	-	32	6	1.7	15.0	1.5	3.0	11.1	28.8	17.7	45.8	4.4	(NA)	(NA)
Newberry -----	E2	26	4	1.6	13.9	1.4	2.9	11.9	18.9	18.1	36.0	(D)	2.1	24.3
North Charleston -----	-	46	16	2.5	36.6	1.6	2.9	20.5	70.6	103.5	172.5	(D)	(NA)	(NA)
Orangeburg -----	E1	63	15	2.1	19.7	1.6	3.1	12.3	38.4	58.5	96.8	2.2	3.6	62.3
Pendleton -----	-	10	6	1.1	11.6	0.9	1.8	7.8	25.0	20.1	45.0	(D)	(D)	(D)
Pickens -----	-	29	12	5.3	46.4	4.5	9.0	37.2	106.0	141.5	232.1	7.7	3.9	40.9
Rock Hill -----	-	78	26	5.5	53.9	4.6	9.2	42.0	88.9	93.6	180.0	13.2	5.8	66.8
Seneca -----	-	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	41.3
Simpsonville -----	-	22	8	2.2	23.3	1.8	3.7	17.3	50.8	55.8	100.1	(D)	2.3	48.9
Spartanburg -----	-	134	50	12.3	134.1	8.4	16.2	71.3	202.0	378.0	596.5	19.2	14.6	189.8
Summerville -----	-	32	9	1.0	9.5	0.8	1.6	6.5	16.2	28.5	42.2	(D)	1.3	14.1
Sumter -----	-	63	24	4.5	36.4	3.7	7.3	27.6	75.7	131.8	205.3	3.8	6.8	80.0
Union -----	-	25	13	4.3	40.8	3.7	7.5	29.8	88.3	92.7	178.0	4.9	4.3	53.1
Walhalla -----	-	12	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Walterboro -----	-	21	6	1.2	9.2	1.1	2.1	7.7	16.4	9.7	25.7	0.7	0.8	9.5
West Columbia -----	-	43	12	1.0	9.8	0.8	1.6	5.8	24.2	29.3	53.1	0.9	1.2	19.2
Westminster -----	-	14	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Williamston -----	-	7	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Williston -----	-	5	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Winnsboro -----	-	48	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Woodruff -----	-	14	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
York -----	-	17	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E10—100 percent.

² Including central administrative offices and auxiliaries (for definition, see appendix B).

³ Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	All Industries -----	-	4 229	1 560	374.2	3 804.9	299.8	594.0	2 640.3	8 186.1	10 855.2	18 882.4	788.6	345.1	4 965.6
20	Food and kindred products -----	-	236	95	11.8	113.1	8.1	15.9	62.9	306.7	550.6	1 163.3	19.8	12.1	171.6
201	Meat products -----	E1	61	16	2.3	18.8	1.9	3.7	13.7	36.6	159.1	195.4	4.2	2.1	25.7
2011	Meat packing plants -----	E1	43	9	1.1	10.0	0.8	1.7	6.5	22.2	94.4	116.7	2.4	1.2	16.8
2016	Poultry dressing plants -----	-	11	5	1.1	7.7	1.0	1.9	6.7	12.5	58.4	70.4	(D)	0.7	6.6
202	Dairy products -----	-	20	16	1.4	13.1	0.7	1.4	5.7	68.0	135.6	203.6	3.0	1.6	37.1
2026	Fluid milk -----	-	14	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
203	Preserved fruits and vegetables -----	-	11	5	2.0	17.4	1.8	3.4	14.1	38.2	98.2	136.5	1.7	2.1	18.9
2038	Frozen specialties -----	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
204	Grain mill products -----	-	30	9	0.5	4.5	0.3	0.6	2.3	9.9	55.8	66.4	1.5	0.5	9.5
2048	Prepared feeds, n.e.c. -----	-	20	5	0.3	2.9	0.2	0.4	1.6	7.6	46.7	55.0	(D)	0.4	7.4
205	Bakery products -----	-	13	10	2.0	24.2	1.2	2.4	12.2	59.7	59.1	118.9	2.7	1.7	25.4
2051	Bread, cake, and related products -----	-	13	10	2.0	24.2	1.2	2.4	12.2	59.7	59.1	118.9	2.7	1.7	25.4
206	Sugar and confectionery products -----	-	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2065	Confectionery products -----	-	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
207	Fats and oils -----	-	13	8	0.5	5.6	0.4	0.9	3.5	2.2	167.7	174.7	1.3	BB	(D)
2075	Soybean oil mills -----	-	5	4	0.2	2.9	0.2	0.4	1.6	-7.6	127.5	128.2	(D)	(NA)	(NA)
208	Beverages -----	-	36	25	1.9	22.3	0.7	1.5	6.3	68.1	150.7	219.2	4.6	2.4	35.5
2086	Bottled and canned soft drinks -----	-	34	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
209	Miscellaneous foods and kindred products -----	E1	48	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2092	Fresh or frozen packaged fish -----	E1	14	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
21	Tobacco products -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	4.4
2141	Tobacco stemming and redrying -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
22	Textile mill products -----	-	429	357	139.1	1 293.8	124.0	250.9	1 068.3	2 468.3	4 057.2	6 475.7	207.8	143.3	1 723.9
2211	Weaving mills, cotton -----	-	57	49	25.6	235.2	23.6	47.5	205.3	377.8	497.7	872.0	39.5	31.4	337.6
2221	Weaving mills, manmade fiber and silk -----	-	107	106	57.5	541.1	52.4	106.9	459.3	1 035.8	1 324.0	2 339.7	80.3	51.7	633.1
2231	Weaving and finishing mills, wool -----	-	4	4	0.5	4.9	0.5	0.9	3.8	14.2	21.1	31.9	(D)	BB	(D)
2241	Narrow fabric mills -----	-	17	14	2.4	19.8	2.1	4.1	15.5	40.4	50.1	90.0	(D)	2.8	25.3
225	Knitting mills -----	-	59	43	11.3	99.9	9.5	18.9	75.6	216.6	390.8	610.0	19.5	15.3	181.9
2251	Women's hosiery, except socks -----	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	26.8
2252	Hosiery, n.e.c. -----	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.8
2253	Knit outerwear mills -----	-	10	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2254	Knit underwear mills -----	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2257	Circular knit fabric mills -----	-	22	19	3.5	35.0	2.6	5.6	25.4	69.9	130.2	202.2	7.2	6.3	89.0
2258	Warp knit fabric mills -----	-	9	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	21.5
226	Textile finishing, except wool -----	-	41	37	19.0	188.0	15.9	32.4	144.7	326.5	927.9	1 238.3	34.1	19.5	256.9
2261	Finishing plants, cotton -----	-	14	13	7.3	71.7	6.2	12.6	56.7	118.6	159.6	276.2	5.8	8.6	113.8
2262	Finishing plants, synthetics -----	-	20	19	10.8	106.4	9.0	18.3	82.3	188.8	733.1	907.7	(D)	9.7	125.0
2269	Finishing plants, n.e.c. -----	-	7	5	0.9	8.0	0.7	1.5	5.7	19.2	35.2	54.4	(D)	1.2	18.1
227	Floor covering mills -----	-	25	13	4.4	39.2	3.8	7.4	30.2	97.0	232.4	324.6	4.6	FF	(D)
2271	Woven carpets and rugs -----	-	11	5	1.2	10.2	1.1	1.9	8.2	18.6	41.0	58.0	0.6	CC	(D)
2272	Tufted carpets and rugs -----	-	10	8	3.2	28.9	2.7	5.4	21.9	78.1	190.9	285.8	4.0	3.5	54.0
228	Yarn and thread mills -----	-	68	59	12.8	114.2	11.5	23.7	94.3	219.5	398.7	614.6	15.4	12.5	143.9
2281	Yarn mills, except wool -----	-	50	44	10.0	90.7	9.1	19.2	76.5	169.1	285.0	454.2	11.7	FF	(D)
2282	Throwing and winding mills -----	-	8	7	1.3	9.7	1.1	1.9	7.3	21.7	54.4	72.6	(D)	2.5	38.4
2283	Wool yarn mills -----	-	5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2284	Thread mills -----	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
229	Miscellaneous textile goods -----	-	53	32	5.5	51.5	4.6	9.1	39.5	140.5	214.6	354.5	10.7	5.1	61.4
2291	Felt goods, except woven felts and hats -----	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2294	Processed textile waste -----	E1	13	7	0.8	6.3	0.7	1.3	5.2	14.1	35.3	50.7	(D)	CC	(D)
2296	Tire cord and fabric -----	-	5	5	1.0	10.0	0.8	1.8	7.9	33.1	84.5	116.7	1.2	0.9	13.9
2297	Nonwoven fabrics -----	-	8	8	2.0	18.6	1.5	3.0	13.9	49.9	61.3	111.1	3.7	0.7	3.9
2299	Textile goods, n.e.c. -----	E2	14	8	0.9	7.8	0.8	1.7	5.9	16.2	20.2	36.2	2.0	EE	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
23	Apparel and other textile products -----	-	319	238	44.8	278.9	38.9	71.3	220.1	483.1	496.8	988.1	(D)	45.7	395.8
2311	Men's and boys' suits and coats -----	-	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	7.2
232	Men's and boys' furnishings ---	-	57	50	10.7	62.5	9.6	17.3	52.7	105.4	82.2	197.9	(D)	11.9	101.3
2321	Men's and boys' shirts and nightwear -----	-	37	34	7.9	46.3	7.2	13.0	39.6	79.7	60.6	149.1	(D)	7.7	79.0
2322	Men's and boys' underwear ---	-	6	6	1.4	8.6	1.3	2.3	7.0	14.4	16.0	31.9	(D)	2.3	11.4
2328	Men's and boys' work clothing -----	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	4.8
2329	Men's and boys' clothing, n.e.c. -----	-	7	5	0.9	5.1	0.8	1.5	4.2	7.2	2.3	9.5	(D)	0.4	2.2
233	Women's and misses' outerwear -----	E1	127	97	15.0	88.2	13.1	23.3	70.4	146.9	89.9	236.5	(D)	13.5	102.3
2331	Women's and misses' blouses and waists -----	-	37	33	4.3	25.2	3.9	6.9	22.1	32.7	16.2	48.8	(D)	3.4	16.0
2335	Women's and misses' dresses -----	E4	41	24	4.9	27.2	4.4	8.0	22.8	38.8	12.1	50.9	(D)	7.8	52.8
2337	Women's and misses' suits and coats -----	-	18	15	1.6	12.6	1.3	2.3	7.0	42.3	53.1	95.5	(D)	CC	(D)
2339	Women's and misses' outerwear, n.e.c. -----	-	31	25	4.2	23.2	3.5	6.1	18.5	33.1	8.4	41.4	(D)	EE	(D)
234	Women's and children's undergarments -----	-	11	11	2.5	15.7	1.9	3.7	10.9	39.7	40.1	79.2	(D)	2.1	23.8
2341	Women's and children's underwear -----	-	11	11	2.5	15.7	1.9	3.7	10.9	39.7	40.1	79.2	(D)	2.1	23.8
236	Children's outerwear -----	-	27	26	7.3	42.3	6.3	11.6	32.4	71.6	71.9	144.9	(D)	7.4	59.5
2361	Children's dresses and blouses -----	-	15	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2363	Children's coats and suits ---	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2369	Children's outerwear, n.e.c. ---	-	11	11	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
238	Miscellaneous apparel and accessories -----	-	17	14	2.0	12.9	1.8	3.4	10.0	25.8	22.1	47.5	(D)	1.3	9.7
2384	Robes and dressing gowns ---	-	10	10	1.7	10.7	1.5	2.8	8.3	20.9	18.3	39.2	(D)	1.1	7.0
2389	Apparel and accessories, n.e.c. -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	-	74	34	6.3	51.2	5.3	10.2	38.8	86.2	189.0	271.0	(D)	7.8	91.2
2391	Curtains and draperies -----	-	21	7	0.7	4.2	0.6	1.0	3.1	9.3	17.5	26.8	(D)	1.0	9.2
2392	House furnishings, n.e.c. -----	-	19	13	4.2	35.3	3.5	6.8	26.4	56.7	148.4	200.7	(D)	FF	(D)
2395	Pleating and stitching -----	E1	11	7	0.4	2.9	0.3	0.6	2.1	5.3	6.6	11.9	(D)	0.2	2.0
2397	Schiffli machine embroideries -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2399	Fabricated textile products, n.e.c. -----	-	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	12.9
24	Lumber and wood products -----	E1	1 269	144	13.7	124.3	11.9	23.3	96.1	291.0	500.9	786.3	(D)	14.2	170.8
2411	Logging camps and logging contractors -----	E3	904	17	2.5	23.9	2.2	3.5	19.2	60.4	123.4	183.6	(D)	2.5	25.6
242	Sawmills and planing mills ---	-	181	63	5.0	43.3	4.4	9.5	35.3	104.3	158.5	262.0	(D)	4.9	60.1
2421	Sawmills and planing mills, general -----	-	170	58	4.8	42.1	4.3	9.2	34.4	102.5	156.5	258.2	11.3	FF	(D)
2426	Hardwood dimension and flooring -----	E2	11	5	0.2	1.1	0.2	0.3	0.9	1.8	2.0	3.8	0.2	0.2	2.3
243	Millwork, plywood, and structural members -----	-	99	36	3.8	34.4	3.3	6.5	26.3	76.2	137.6	212.9	(D)	3.8	46.3
2431	Millwork -----	-	39	11	0.6	5.9	0.5	1.0	3.7	13.5	28.1	41.3	(D)	0.9	12.3
2434	Wood kitchen cabinets -----	E2	26	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2435	Hardwood veneer and plywood -----	-	22	17	1.6	12.7	1.4	2.7	9.5	21.8	59.0	80.1	(D)	2.0	19.0
2436	Softwood veneer and plywood -----	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
244	Wood containers -----	E1	28	9	0.7	4.5	0.6	1.2	3.9	7.6	7.5	15.1	(D)	0.7	4.6
2441	Nailed wood boxes and shooks -----	-	5	3	0.3	2.1	0.3	0.6	1.8	2.8	2.3	5.2	(D)	AA	(D)
2448	Wood pallets and skids -----	E3	19	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2449	Wood containers, n.e.c. -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	3.4
245	Wood buildings and mobile homes -----	-	8	4	0.2	1.6	0.2	0.3	1.1	2.5	7.1	9.5	0.3	0.8	9.4
2451	Mobile homes -----	-	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
249	Miscellaneous wood products --	-	49	15	1.6	16.6	1.2	2.4	10.4	40.0	66.8	105.3	(D)	1.5	24.9
2491	Wood preserving -----	-	14	6	0.6	6.8	0.4	0.8	3.0	19.3	39.0	57.3	(D)	0.5	11.4
2499	Wood products, n.e.c. -----	-	34	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
25	Furniture and fixtures -----	E1	63	29	4.1	34.6	3.5	6.9	25.9	67.5	61.4	128.2	(D)	5.0	55.8
251	Household furniture -----	-	44	20	3.5	28.9	3.0	6.1	22.8	55.2	49.7	104.9	(D)	4.5	51.0
2511	Wood household furniture ---	E1	23	11	2.1	16.0	1.9	3.8	12.7	31.1	27.7	59.2	(D)	2.6	29.8
2512	Upholstered household furniture -----	-	9	5	0.9	8.7	0.8	1.6	7.2	17.0	14.1	30.8	(D)	1.4	15.7
2515	Mattresses and bedsprings ---	-	9	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
254	Partitions and fixtures -----	E2	12	5	0.5	4.3	0.3	0.6	2.2	9.5	9.0	17.8	(D)	0.3	3.9
2541	Wood partitions and fixtures ---	-	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2542	Metal partitions and fixtures ---	E4	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ⁴ (million dollars)	Value of shipments ⁵ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
26	Paper and allied products -----	-	68	41	12.5	180.2	9.6	19.3	126.4	463.5	646.4	1 107.6	35.9	12.3	292.6
2611	Pulp mills -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2621	Paper mills, except building paper -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2631	Paperboard mills -----	-	6	5	3.9	65.7	3.0	5.7	45.8	151.3	206.0	358.8	17.2	3.7	110.7
264	Miscellaneous converted paper products -----	-	26	11	3.2	38.6	2.5	5.3	28.1	115.0	152.4	262.1	7.9	FF	(D)
2641	Paper coating and glazing -----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2643	Bags, except textile bags -----	-	8	4	1.8	20.5	1.4	3.1	14.9	43.9	62.1	104.3	(D)	1.5	37.7
2647	Sanitary paper products -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
265	Paperboard containers and boxes -----	-	32	21	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.0	68.4
2651	Folding paperboard boxes -----	E1	3	2	0.2	1.6	0.2	0.3	1.2	2.4	3.7	5.8	-	(NA)	(NA)
2653	Corrugated and solid fiber boxes -----	E1	17	14	1.6	19.0	1.2	2.3	12.4	37.0	75.6	112.3	2.2	1.5	22.7
2654	Sanitary food containers -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2655	Fiber cans, drums, and similar products -----	-	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
27	Printing and publishing -----	E1	359	60	5.9	61.8	3.3	5.8	28.9	134.0	54.9	186.5	9.7	5.1	79.3
2711	Newspapers -----	-	93	25	3.1	31.1	1.1	1.9	9.2	76.8	22.8	99.5	5.1	2.6	43.0
275	Commercial printing -----	E1	216	27	1.9	20.5	1.3	2.4	12.3	32.7	21.0	53.4	3.8	2.0	25.7
2751	Commercial printing, letterpress -----	E2	139	10	0.7	7.0	0.5	1.0	4.7	14.1	8.8	22.5	1.1	CC	(D)
2752	Commercial printing, lithographic -----	-	69	15	1.1	12.6	0.7	1.3	7.0	16.9	11.9	28.6	2.7	1.1	11.4
2761	Manifold business forms -----	E1	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
278	Blankbooks and bookbinding --	-	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2782	Blankbooks and looseleaf binders -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
279	Printing trade services -----	E1	12	1	0.2	1.8	0.1	0.2	1.2	3.6	1.2	4.7	0.1	(NA)	(NA)
28	Chemicals and allied products -----	-	164	65	33.1	483.2	22.0	43.4	264.7	1 449.3	1 508.0	2 908.9	151.6	27.8	813.7
281	Industrial inorganic chemicals --	-	18	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2819	Industrial inorganic chemicals, n.e.c. -----	-	9	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
282	Plastics materials and synthetics -----	-	22	20	20.8	280.4	15.6	30.7	180.9	681.4	1 098.8	1 755.8	114.9	17.2	458.7
2821	Plastics materials and resins -----	-	5	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2823	Cellulosic manmade fibers -----	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2824	Organic fibers, noncellulosic -----	-	14	14	18.4	250.3	13.9	27.3	161.8	608.0	979.5	1 565.1	108.4	FF	(D)
283	Drugs -----	-	9	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2834	Pharmaceutical preparations -----	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
284	Soaps, cleaners, and toilet goods -----	-	36	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2842	Polishes and sanitation goods -----	-	11	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2843	Surface active agents -----	-	15	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2851	Paints and allied products -----	-	4	2	0.3	2.9	0.1	0.3	1.2	4.8	10.4	15.3	0.4	(NA)	(NA)
286	Industrial organic chemicals --	-	25	18	1.9	25.6	1.2	2.4	14.1	142.9	163.8	300.5	21.2	1.2	50.2
2865	Cyclic crudes and intermediates -----	-	8	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2869	Industrial organic chemicals, n.e.c. -----	-	12	9	1.1	15.5	0.7	1.5	8.8	99.1	97.9	193.1	8.3	0.6	26.8
287	Agricultural chemicals -----	E1	34	9	0.5	5.4	0.4	0.8	3.1	26.9	46.5	72.8	2.5	0.7	11.6
2874	Phosphatic fertilizers -----	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	7.2
2875	Fertilizers, mixing only -----	E1	17	4	0.2	1.8	0.1	0.3	1.0	5.8	17.9	24.4	0.7	0.2	1.4
29	Petroleum and coal products -----	-	9	3	0.4	5.1	0.3	0.6	3.1	12.5	35.1	47.6	(D)	BB	(D)
295	Paving and roofing materials --	-	9	3	0.4	5.1	0.3	0.6	3.1	12.6	35.1	47.6	(D)	BB	(D)
2952	Asphalt felts and coatings -----	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
30	Rubber and miscellaneous plastics products -----	-	93	57	12.5	148.3	9.8	19.9	99.3	363.0	362.4	699.2	84.1	FF	(D)
3011	Tires and inner tubes -----	-	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3041	Rubber and plastics hose and belting -----	-	3	3	0.9	9.6	0.7	1.3	6.9	24.4	22.0	41.0	2.8	BB	(D)
3069	Fabricated rubber products, n.e.c. -----	-	13	10	1.4	13.6	1.1	2.3	9.8	29.2	46.6	75.8	2.1	CC	(D)
3079	Miscellaneous plastics products -----	-	72	41	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
31	Leather and leather products -----	E1	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3111	Leather tanning and finishing --	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	181	68	11.2	129.4	8.9	17.8	94.8	307.8	233.8	549.4	34.0	10.2	179.1
322	Glass and glassware, pressed or blown -----	-	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3221	Glass containers -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3229	Pressed and blown glass, n.e.c. -----	-	3	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3241	Cement, hydraulic -----	-	3	3	0.6	10.0	0.5	1.0	7.9	32.5	32.4	65.1	(D)	BB	(D)
325	Structural clay products -----	-	15	14	1.1	10.4	0.9	1.8	6.9	20.3	18.4	40.8	(D)	1.4	21.8
3251	Brick and structural clay tile --	-	14	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
326	Pottery and related products ---	-	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3261	Vitreous plumbing fixtures ---	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3264	Porcelain electrical supplies --	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
327	Concrete, gypsum, and plaster products -----	E1	122	37	2.6	26.6	1.9	3.7	18.4	56.8	68.9	126.1	5.8	2.5	36.0
3271	Concrete block and brick ---	E2	15	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3272	Concrete products, n.e.c. ---	E1	43	14	1.0	10.1	0.7	1.4	5.8	18.7	15.9	34.9	0.9	1.0	(D)
3273	Ready-mixed concrete -----	-	63	20	1.4	14.4	1.0	2.0	9.4	33.4	47.1	80.6	4.5	1.2	18.5
329	Miscellaneous nonmetallic mineral products -----	-	13	6	1.5	16.2	1.1	2.1	10.0	29.4	19.8	49.6	(D)	EE	(D)
3293	Gaskets, packing, and sealing devices -----	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3295	Minerals, ground or treated --	-	5	2	0.2	2.3	0.1	0.3	1.3	3.2	4.1	7.3	(D)	(NA)	(NA)
33	Primary metal industries -----	-	52	27	4.8	62.3	3.6	8.2	47.0	114.5	323.3	436.7	83.8	3.3	59.9
331	Blast furnace and basic steel products -----	-	16	9	2.4	39.7	2.0	4.4	30.3	71.7	224.3	298.0	(D)	1.8	34.3
3312	Blast furnaces and steel mills -----	-	6	3	1.7	29.2	1.4	3.1	22.7	46.1	127.7	174.0	21.7	EE	(D)
3313	Electrometallurgical products -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3315	Steel wire and related products -----	-	5	3	0.4	4.3	0.3	0.6	3.0	9.4	29.8	38.6	0.9	(NA)	(NA)
332	Iron and steel foundries -----	-	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3321	Gray iron foundries -----	-	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3341	Secondary nonferrous metals --	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
335	Nonferrous rolling and drawing --	-	9	8	1.0	10.0	0.9	1.8	7.7	22.7	55.9	90.3	0.8	0.8	13.0
3354	Aluminum extruded products --	-	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3357	Nonferrous wire drawing and insulating -----	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
336	Nonferrous foundries -----	-	16	5	0.5	5.6	0.5	1.0	4.7	13.6	10.9	21.8	1.1	0.4	5.2
3361	Aluminum foundries -----	-	8	4	0.5	4.9	0.4	0.9	4.3	11.6	9.8	18.8	(D)	AA	(D)
34	Fabricated metal products -----	-	232	85	12.3	135.0	9.5	19.1	92.8	315.8	360.7	667.1	36.7	8.1	114.7
341	Metal cans and shipping containers -----	-	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3411	Metal cans -----	-	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
342	Cutlery, hand tools, and hardware -----	-	15	9	3.4	32.3	2.7	5.4	22.8	83.5	40.9	119.6	(D)	EE	(D)
3423	Hand and edge tools, n.e.c. --	-	7	6	2.8	27.1	2.3	4.5	19.2	73.6	35.9	105.2	2.6	CC	(D)
3425	Hand saws and saw blades --	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3429	Hardware, n.e.c. -----	E2	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
343	Plumbing and heating, except electric -----	-	8	4	0.5	4.5	0.4	0.7	3.1	10.2	11.5	22.5	0.6	0.5	8.1
3433	Heating equipment, except electric -----	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
344	Fabricated structural metal products -----	-	124	42	4.3	49.6	3.1	6.2	32.5	97.2	146.9	243.6	7.3	4.2	50.4
3441	Fabricated structural metal --	-	35	16	2.2	24.2	1.5	3.0	15.2	51.9	82.0	134.3	4.1	2.3	22.4
3442	Metal doors, sash, and trim --	-	16	1	0.2	1.9	0.2	0.4	1.3	4.0	7.9	12.0	0.1	AA	(D)
3443	Fabricated plate work (boiler shops) -----	E3	14	9	0.5	6.0	0.3	0.7	3.9	7.3	9.8	16.7	0.8	AA	(D)
3444	Sheet metal work -----	E1	33	8	0.5	5.4	0.4	0.7	3.5	9.4	10.9	20.1	0.5	0.2	4.7
3446	Architectural metal work ----	-	17	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	4.1
3449	Miscellaneous metal work ---	-	6	4	0.6	8.7	0.5	1.0	6.4	19.1	32.4	51.1	(D)	0.7	11.8
346	Metal forgings and stampings --	-	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3465	Automotive stampings -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3469	Metal stampings, n.e.c. -----	-	4	2	0.2	1.9	0.1	0.3	1.2	2.4	10.6	12.8	0.2	(NA)	(NA)
347	Metal services, n.e.c. -----	-	23	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.4
3471	Plating and polishing -----	-	12	4	0.2	1.5	0.2	0.2	1.2	2.8	2.2	4.8	(D)	0.2	2.3
3479	Metal coating and allied services -----	-	11	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977										1972		
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E1															
34	Fabricated metal products—Con.														
349	Miscellaneous fabricated metal products-----	-	44	16	2.2	25.7	1.8	3.4	17.2	67.7	51.9	116.8	(D)	1.1	18.7
3494	Valves and pipe fittings-----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3496	Miscellaneous fabricated wire products-----	-	9	4	0.6	6.8	0.4	0.8	3.8	15.0	13.9	28.6	0.7	(NA)	(NA)
3498	Fabricated pipe and fittings-----	-	6	3	0.6	8.5	0.5	1.0	6.4	21.7	18.9	40.6	1.0	BB	(D)
3499	Fabricated metal products, n.e.c.-----	-	26	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
35	Machinery, except electrical-----	-	382	112	27.3	311.5	20.7	42.1	206.8	890.9	774.9	1 443.0	57.7	18.9	406.4
351	Engines and turbines-----	-	5	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3511	Turbines and turbine generator sets-----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3519	Internal combustion engines, n.e.c.-----	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
352	Farm and garden machinery-----	-	11	5	0.9	8.2	0.8	1.4	5.6	20.1	63.0	83.6	(D)	CC	(D)
3523	Farm machinery and equipment-----	-	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3524	Lawn and garden equipment-----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
353	Construction and related machinery-----	-	26	13	2.8	32.4	2.1	4.0	19.4	79.9	100.9	173.4	8.7	1.3	25.5
3531	Construction machinery-----	-	13	7	1.7	21.1	1.3	2.4	12.8	49.2	50.9	104.6	(D)	CC	(D)
3532	Mining machinery-----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3535	Conveyors and conveying equipment-----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3536	Hoists, cranes, and monorails-----	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3537	Industrial trucks and tractors-----	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
354	Metallworking machinery-----	-	44	13	4.9	48.1	4.1	8.3	36.8	139.1	120.4	246.7	7.6	2.6	32.5
3544	Special dies, tools, jigs, and fixtures-----	E1	26	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.9
3545	Machine tool accessories-----	-	8	6	0.8	6.1	0.5	1.1	5.1	13.0	10.3	23.1	0.7	BB	(D)
3546	Power driven hand tools-----	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
355	Special industry machinery-----	-	93	41	7.3	80.8	5.5	11.1	54.4	139.2	98.8	249.7	9.9	6.7	119.0
3552	Textile machinery-----	-	86	39	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.4	89.2
356	General industrial machinery-----	-	26	13	4.8	57.0	3.8	8.2	41.1	139.6	144.2	276.0	16.7	2.4	50.2
3562	Ball and roller bearings-----	-	9	8	3.9	45.6	3.3	7.2	35.9	120.5	114.8	228.1	16.1	2.2	46.0
3566	Speed changers, drives, and gears-----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3569	General industrial machinery, n.e.c.-----	-	8	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
357	Office and computing machines-----	-	5	5	1.3	14.7	0.7	1.2	6.1	41.4	33.9	71.4	1.6	1.2	24.2
3573	Electronic computing equipment-----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3574	Calculating and accounting machines-----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3576	Scales and balances, except laboratory-----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3579	Office machines, n.e.c. and typewriters-----	E1	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
358	Refrigeration and service machinery-----	-	15	7	1.1	10.8	0.9	1.8	7.3	26.0	29.8	53.8	(D)	CC	(D)
3585	Refrigeration and heating equipment-----	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3589	Service industry machinery, n.e.c.-----	-	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical-----	E3	157	11	0.9	9.9	0.7	1.3	6.9	17.0	9.7	26.4	2.0	0.8	12.2
3599	Machinery, except electrical, n.e.c.-----	E3	157	11	0.9	9.9	0.7	1.3	6.9	17.0	9.7	26.4	2.0	0.8	12.2
36	Electric and electronic equipment-----	-	79	41	17.4	167.1	13.7	26.5	109.9	402.2	334.1	722.5	31.0	13.1	185.3
361	Electric distributing equipment-----	-	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3613	Switchgear and switchboard apparatus-----	-	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
362	Electrical industrial apparatus-----	-	16	10	3.2	35.6	2.0	4.0	20.2	94.3	69.1	163.0	5.8	1.7	48.9
3621	Motors and generators-----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3622	Industrial controls-----	-	9	4	1.2	14.6	0.7	1.4	7.1	32.6	19.9	53.7	(D)	BB	(D)
3623	Welding apparatus, electric-----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3624	Carbon and graphite products-----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3629	Electrical industrial apparatus, n.e.c.-----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
363	Household appliances-----	-	8	7	4.1	34.1	3.4	5.9	22.9	93.9	114.6	202.1	4.1	2.6	36.2
3632	Household refrigerators and freezers-----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3634	Electric housewares and fans-----	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3636	Sewing machines-----	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
36	Electric and electronic equipment —Con.														
364	Electric lighting and wiring equipment -----	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	11.8
3641	Electric lamps -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
366	Communication equipment ----	-	14	7	1.9	20.0	1.5	2.8	13.4	48.2	25.4	72.0	2.2	BB	(D)
3662	Radio and TV communication equipment --	-	13	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
367	Electronic components and accessories -----	-	17	8	6.7	82.2	5.4	11.0	42.3	116.5	75.6	188.8	17.0	5.8	51.3
3675	Electronic capacitors -----	-	6	5	6.3	58.1	5.1	10.4	40.4	109.6	72.9	179.4	16.7	FF	(D)
3677	Electronic coils and transformers -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
369	Miscellaneous electrical equipment and supplies ----	-	10	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	26.7
3691	Storage batteries -----	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3699	Electrical equipment and supplies, n.e.c. -----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
37	Transportation equipment -----	-	70	27	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.5	46.2
371	Motor vehicles and equipment -	-	16	7	2.5	22.7	2.1	4.3	14.9	53.9	42.2	82.6	(D)	1.3	14.7
3714	Motor vehicle parts and accessories -----	-	8	5	2.3	21.0	2.0	4.1	14.1	49.7	38.9	86.9	(D)	EE	(D)
372	Aircraft and parts -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
373	Ship and boat building and repairing -----	E1	33	14	1.7	20.2	1.5	2.9	14.7	35.4	33.1	68.7	(D)	0.8	13.1
3731	Ship building and repairing --	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3732	Boat building and repairing --	E2	29	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
376	Guided missiles, space vehicles, parts -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3761	Guided missiles and space vehicles -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
38	Instruments and related products -----	E1	27	11	4.7	44.9	3.8	7.4	33.2	126.8	74.4	200.0	(D)	3.9	78.3
3811	Engineering and scientific instruments -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
382	Measuring and controlling devices -----	E5	6	4	1.8	16.6	1.5	2.9	12.5	46.5	15.9	63.3	(D)	1.4	21.2
3822	Environmental controls -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3824	Fluid meters and counting devices -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3825	Instruments to measure electricity -----	E0	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
384	Medical instruments and supplies -----	-	14	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3842	Surgical appliances and supplies -----	-	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3851	Ophthalmic goods -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
39	Miscellaneous manufacturing industries -----	E1	93	27	4.2	33.1	3.5	6.6	24.0	76.2	50.4	126.4	(D)	5.0	79.3
3931	Musical instruments -----	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
394	Toys and sporting goods ----	E3	23	9	1.6	12.3	1.4	2.5	8.6	20.6	16.7	41.5	(D)	2.1	23.9
3942	Dolls -----	E0	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3949	Sporting and athletic goods, n.e.c. -----	-	18	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
396	Costume jewelry and notions --	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3964	Needles, pins, and fasteners -----	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
399	Miscellaneous manufactures ---	E1	51	11	0.8	6.9	0.6	1.1	4.2	13.7	8.6	22.3	(D)	EE	(D)
3993	Signs and advertising displays -----	E1	33	7	0.5	4.9	0.4	0.7	3.0	8.8	5.4	14.3	(D)	CC	(D)
3995	Burial caskets -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
-	Administrative and auxiliary -----	-	94	67	9.0	141.0	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B). - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Augusta, Ga.-S.C., SMSA -----	-	302	131	34.7	428.0	24.9	50.6	257.7	1 090.5	1 102.3	2 174.7	177.5	30.4	578.2
20	Food and kindred products --	-	25	15	2.5	25.2	1.6	3.1	12.8	57.6	131.9	189.9	4.1	2.6	38.0
205	Bakery products -----	-	5	4	1.3	13.0	1.0	1.7	7.2	30.8	35.5	66.3	1.1	(NA)	(NA)
22	Textile mill products -----	-	21	18	9.4	92.8	8.6	18.6	79.6	140.3	236.9	375.4	(D)	9.1	98.8
226	Textile finishing, except wool -----	-	4	4	2.5	26.8	2.0	4.7	20.3	38.4	42.2	80.6	(D)	(NA)	(NA)
23	Apparel and other textile products -----	E1	16	13	2.2	13.7	2.0	3.6	10.9	18.3	10.5	28.4	0.2	2.0	13.4
232	Men's and boys' furnishings -----	E2	4	4	1.0	5.4	0.9	1.7	4.6	7.8	2.2	9.7	(D)	0.6	3.9
239	Miscellaneous fabricated textile products -----	E2	6	3	0.6	4.2	0.5	0.8	2.7	5.5	7.2	12.6	(D)	0.7	6.5
24	Lumber and wood products --	-	63	10	0.7	6.7	0.6	1.2	5.2	17.5	29.2	46.3	1.1	0.7	7.6
26	Paper and allied products ---	-	13	11	2.5	41.0	2.1	4.4	31.4	149.6	243.5	388.5	13.3	2.8	81.7
2621	Paper mills, except building paper -----	-	3	3	0.5	9.0	0.4	0.8	6.9	25.0	81.1	106.0	(D)	(NA)	(NA)
27	Printing and publishing -----	-	32	4	0.5	5.0	0.2	0.3	1.8	13.4	3.8	17.2	(D)	0.5	9.7
28	Chemicals and allied products -----	-	21	11	7.9	144.3	4.0	7.9	62.1	493.2	260.3	745.7	(D)	6.6	248.5
32	Stone, clay, and glass products -----	-	23	9	3.4	35.8	2.7	5.1	26.5	97.9	65.5	161.7	5.4	3.3	56.8
34	Fabricated metal products ---	-	17	8	0.4	5.2	0.3	0.7	3.7	7.4	12.4	19.6	0.5	0.6	6.0
344	Fabricated structural metal products -----	-	10	7	0.4	4.8	0.3	0.6	3.4	6.5	11.7	18.0	(D)	0.5	5.0
35	Machinery, except electrical -	-	21	8	1.3	15.7	1.0	1.9	9.9	31.2	20.8	49.7	(D)	0.4	6.2
-	Administrative and auxiliary --	-	12	10	1.3	17.9	-	-	-	-	-	-	-	(NA)	(NA)
	Charleston-North Charleston SMSA -----	-	323	103	17.6	205.8	12.8	24.8	126.5	453.4	612.9	1 042.8	91.8	15.2	263.8
242	Sawmills and planing mills -	-	9	5	0.5	3.4	0.4	0.8	2.8	8.5	14.8	22.9	(D)	0.5	10.8
27	Printing and publishing -----	E1	47	5	0.7	7.0	0.3	0.5	2.8	15.6	5.6	21.2	1.5	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	9	5	0.9	9.6	0.8	1.5	7.3	30.8	24.4	50.2	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	18	10	1.6	19.1	1.2	2.4	12.7	42.2	35.4	78.4	4.7	1.4	27.9
327	Concrete, gypsum, and plaster products -----	-	13	6	0.3	2.8	0.2	0.4	1.8	7.1	7.0	14.1	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	17	4	0.4	3.7	0.3	0.6	2.2	14.2	7.0	19.2	(D)	0.3	3.2
37	Transportation equipment ---	-	19	11	1.6	21.5	1.3	2.3	12.8	35.3	21.8	54.8	1.7	0.7	13.0
3732	Boat building and repairing -----	E1	13	6	0.3	3.2	0.2	0.4	2.4	4.9	8.0	13.1	0.5	(NA)	(NA)
	Columbia SMSA -----	-	391	145	24.9	277.7	18.1	35.3	161.1	647.6	702.5	1 324.6	91.2	21.8	315.9
20	Food and kindred products --	-	21	9	1.0	8.8	0.6	1.2	4.0	23.3	50.9	74.1	(D)	1.2	17.1
201	Meat products -----	-	8	4	0.5	3.4	0.4	0.7	2.3	7.8	20.7	28.3	(D)	0.5	6.9
22	Textile mill products -----	-	12	9	3.8	34.1	3.4	6.5	24.7	75.2	62.5	136.6	(D)	3.8	37.5
23	Apparel and other textile products -----	-	25	17	2.1	13.5	1.9	3.6	10.5	18.6	27.7	46.4	(D)	2.1	17.5
233	Women's and misses' outerwear -----	-	6	6	0.4	2.4	0.4	0.8	2.0	2.4	11.4	13.7	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	-	11	4	0.5	3.6	0.4	0.8	2.6	6.3	9.0	15.4	(D)	(NA)	(NA)
24	Lumber and wood products --	E1	54	9	0.5	3.6	0.4	0.7	2.6	8.0	11.9	19.9	(D)	0.6	6.7
27	Printing and publishing -----	-	88	13	1.6	16.8	0.9	1.7	7.9	33.4	13.9	47.2	2.5	1.2	18.8
275	Commercial printing -----	-	43	9	0.7	7.7	0.4	0.9	4.2	10.1	6.4	16.4	(D)	0.5	8.8
2752	Commercial printing, lithographic -----	-	15	5	0.4	5.2	0.3	0.5	2.5	5.5	3.3	8.7	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	19	8	4.6	69.0	3.0	5.5	35.2	220.0	213.6	418.8	(D)	3.2	85.9
32	Stone, clay, and glass products -----	-	25	15	1.0	10.8	0.8	1.6	7.1	24.8	22.2	48.4	(D)	(NA)	(NA)
325	Structural clay products ---	-	4	4	0.4	3.7	0.3	0.6	2.6	9.0	5.3	16.2	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	44	19	2.1	27.0	1.5	3.2	16.7	51.8	94.3	143.9	4.5	1.6	17.8
3441	Fabricated structural metal -----	-	12	9	1.1	14.5	0.8	1.6	8.4	29.0	39.7	67.6	3.2	0.9	8.7
39	Miscellaneous manufacturing industries ---	E4	23	7	1.2	10.2	0.9	1.7	6.1	19.2	12.0	31.6	(D)	1.5	17.1
3993	Signs and advertising displays -----	-	13	3	0.3	3.3	0.2	0.5	2.1	5.9	3.5	9.4	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expen- diture (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Greenville-Spartanburg SMSA -----	-	983	428	104.8	1 071.9	81.2	161.6	715.1	2 129.7	3 003.8	5 086.0	212.0	98.2	1 458.1
20	Food and kindred products --	-	48	23	2.3	25.0	1.6	3.0	13.6	89.0	191.1	280.2	6.1	2.5	45.9
202	Dairy products -----	-	4	4	0.4	4.4	0.3	0.6	2.5	26.2	62.0	88.2	1.6	0.4	17.8
208	Beverages -----	-	6	5	0.4	5.9	0.1	0.3	1.1	13.1	28.1	41.2	1.8	0.6	6.7
22	Textile mill products -----	-	139	117	41.2	386.2	36.7	73.8	320.2	691.7	1 218.8	1 900.1	73.8	42.6	554.3
2221	Weaving mills, manmade fiber and silk -----	-	33	32	17.8	168.1	16.4	33.7	146.7	311.4	457.7	760.8	(D)	17.8	250.2
228	Yarn and thread mills -----	-	14	14	2.3	22.6	2.1	4.3	18.4	37.8	68.1	106.7	1.8	(NA)	(NA)
2281	Yarn mills, except wool -	-	10	10	1.7	17.0	1.6	3.2	14.0	28.2	35.9	65.1	(D)	(NA)	(NA)
23	Apparel and other textile products -----	-	63	45	11.6	82.9	9.6	17.7	61.6	157.5	215.2	373.5	(D)	14.7	157.0
232	Men's and boys' furnishings -----	-	8	7	2.2	12.8	2.0	3.5	10.8	32.0	22.8	53.9	(D)	3.0	23.5
233	Women's and misses' outerwear -----	-	25	17	3.0	20.2	2.5	4.4	14.4	46.2	50.4	96.7	(D)	3.8	42.8
2361	Children's dresses and blouses -----	E1	3	3	0.4	2.3	0.4	0.7	1.9	3.0	0.4	3.4	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	-	17	8	3.2	28.4	2.6	5.2	21.9	38.1	99.4	137.3	(D)	4.2	58.2
26	Paper and allied products ---	-	25	15	2.8	32.6	2.2	4.7	22.5	69.3	95.4	162.6	4.4	2.5	50.1
265	Paperboard containers and boxes -----	-	15	10	0.9	10.1	0.7	1.5	6.7	17.9	31.6	49.2	(D)	0.8	10.6
27	Printing and publishing -----	E1	88	12	1.5	16.1	0.8	1.4	7.1	33.3	15.5	48.7	2.0	1.1	19.0
2711	Newspapers -----	-	16	3	0.7	8.2	0.3	0.5	2.2	20.8	6.6	27.4	0.8	(NA)	(NA)
275	Commercial printing -----	E1	59	7	0.6	6.1	0.4	0.7	3.5	9.3	6.7	15.9	1.1	0.5	7.1
2752	Commercial printing, lithographic -----	-	20	5	0.4	4.1	0.3	0.4	2.2	5.7	4.6	10.2	0.8	0.3	3.7
30	Rubber and miscellaneous plastics products -----	-	36	20	4.7	59.7	3.3	6.7	36.0	143.0	172.2	293.4	44.4	1.6	24.4
3079	Miscellaneous plastics products -----	-	26	13	2.0	25.3	1.4	2.8	13.8	62.7	55.3	114.9	(D)	(NA)	(NA)
33	Primary metal industries ----	-	20	6	0.6	6.8	0.5	1.1	5.1	17.3	23.9	38.5	1.3	0.8	10.6
34	Fabricated metal products ---	-	65	23	2.8	32.3	2.2	4.5	22.7	60.8	107.7	168.4	2.8	2.2	32.5
344	Fabricated structural metal products -----	-	34	7	0.6	6.6	0.4	0.8	3.9	12.7	25.6	39.1	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	15	7	0.7	8.0	0.6	1.0	5.2	11.5	13.4	24.8	(D)	0.4	5.5
35	Machinery, except electrical -	-	160	50	13.1	142.2	9.9	20.1	95.5	325.6	302.4	630.9	17.1	9.7	230.0
36	Electric and electronic equipment -----	-	25	8	4.6	46.2	3.5	7.3	30.4	86.8	81.6	167.4	8.8	3.7	54.1
37	Transportation equipment ---	-	14	4	1.3	15.0	1.0	2.1	8.8	29.0	35.3	67.7	1.5	0.8	11.9
39	Miscellaneous manufacturing industries ---	-	25	5	1.2	7.6	1.0	1.8	5.9	16.3	14.6	28.7	(D)	1.3	16.5
-	Administrative and auxiliary --	-	51	36	4.7	77.1	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.

(Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	E1	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
22	Abbeville County -----	-	34	16	5.3	49.5	4.7	9.2	39.8	83.3	161.7	246.5	7.2	5.8	75.3
2221	Textile mill products-----	-	9	9	4.3	38.7	3.8	7.5	32.7	60.7	125.6	187.3	6.8	4.5	56.1
	Weaving mills, manmade fiber and silk-----	-	5	5	1.8	17.6	1.5	3.1	13.7	31.0	56.5	87.0	(D)	(NA)	(NA)
	Aiken County -----	-	95	47	19.2	250.2	13.4	27.2	148.3	611.0	348.6	950.9	15.0	16.2	320.9
	Allendale County -----	-	23	9	0.8	6.1	0.7	1.5	4.7	14.3	21.8	36.2	(D)	0.8	7.0
	Anderson County -----	-	167	87	24.2	237.9	20.4	41.5	179.6	433.8	541.7	980.4	46.1	22.4	260.9
20	Food and kindred products--	-	11	5	0.5	6.3	0.3	0.5	2.8	13.5	16.1	29.5	0.8	0.5	7.8
22	Textile mill products-----	-	35	34	12.7	122.1	11.4	24.1	99.9	234.0	301.7	538.0	13.0	13.1	147.0
2211	Weaving mills, cotton-----	-	9	9	4.2	39.5	3.9	8.3	35.1	65.6	83.5	148.2	3.4	(NA)	(NA)
2221	Weaving mills, manmade fiber and silk-----	-	14	14	6.5	64.3	5.8	12.3	50.8	135.9	171.3	309.9	6.1	(NA)	(NA)
228	Yarn and thread mills-----	-	4	4	0.8	7.8	0.8	1.7	6.8	9.9	24.7	35.1	(D)	1.9	22.9
23	Apparel and other textile products-----	-	21	16	2.5	14.1	2.3	4.1	12.1	20.3	7.8	28.0	(D)	2.6	16.3
233	Women's and misses' outerwear-----	-	10	9	1.4	8.5	1.3	2.2	7.3	12.0	2.5	14.5	(D)	1.2	5.7
30	Rubber and miscellaneous plastics products-----	-	5	4	1.0	12.6	0.8	1.6	8.8	11.5	13.8	31.4	(D)	(NA)	(NA)
34	Fabricated metal products---	-	18	3	0.5	4.6	0.4	0.8	3.4	9.7	6.1	15.3	0.4	(NA)	(NA)
35	Machinery, except electrical--	-	21	7	0.7	6.9	0.5	1.0	4.4	16.7	10.0	26.9	1.3	0.5	5.2
	Bamberg County -----	-	41	15	1.6	12.2	1.4	2.6	9.4	44.2	42.0	86.7	1.7	1.7	20.5
	Barnwell County -----	-	21	12	3.1	25.6	2.7	5.2	19.9	56.1	63.3	117.2	3.2	2.3	25.4
	Beaufort County -----	-	48	15	1.4	10.2	1.1	2.0	7.2	17.2	17.3	32.7	3.5	1.0	6.8
	Berkeley County -----	-	52	19	3.8	36.7	3.2	5.6	27.0	120.4	105.2	210.1	16.4	2.7	52.0
23	Apparel and other textile products-----	-	5	4	0.7	3.3	0.6	0.9	2.5	3.6	5.4	9.0	(D)	(NA)	(NA)
	Charleston County -----	-	209	64	11.7	149.3	7.9	15.8	84.8	291.1	458.5	742.1	66.4	10.3	179.5
20	Food and kindred products--	-	19	7	0.8	8.0	0.2	0.5	1.8	27.1	38.1	65.3	0.8	1.0	12.7
23	Apparel and other textile products-----	-	8	3	0.9	5.1	0.8	1.5	4.3	15.1	9.8	24.8	(D)	0.9	7.9
27	Printing and publishing-----	-	40	5	0.6	6.8	0.3	0.5	2.7	15.4	5.4	20.8	1.5	0.9	11.4
28	Chemicals and allied products-----	-	15	8	1.2	19.0	0.8	1.7	9.9	47.5	85.0	130.6	(D)	0.6	18.0
	Cherokee County -----	-	57	29	6.1	62.4	5.1	10.6	46.6	110.9	194.2	304.8	20.7	6.7	76.8
22	Textile mill products-----	-	16	14	3.9	38.1	3.4	6.8	29.1	66.8	107.4	174.9	7.0	4.3	53.0
	Chester County -----	-	70	31	7.5	72.5	6.7	13.3	59.8	154.5	180.1	338.8	6.2	6.8	110.4
23	Apparel and other textile products-----	-	10	8	1.2	8.7	1.1	2.1	7.1	9.5	25.0	40.8	(D)	(NA)	(NA)
	Chesterfield County -----	-	76	35	5.8	48.8	4.9	9.6	36.6	122.6	210.1	325.8	33.9	5.7	59.9
22	Textile mill products-----	-	15	13	2.7	21.9	2.3	4.4	16.3	39.1	98.9	137.0	8.1	3.2	36.7
228	Yarn and thread mills-----	-	5	4	1.1	7.5	1.0	1.7	5.8	14.5	35.1	49.5	(D)	1.1	6.8
23	Apparel and other textile products-----	-	10	7	1.0	6.2	0.9	1.7	5.1	7.6	9.4	18.1	(D)	1.5	9.5
34	Fabricated metal products---	-	8	5	1.1	10.1	0.9	1.8	7.4	44.3	25.0	64.0	(D)	(NA)	(NA)
	Clarendon County -----	-	40	13	1.8	13.7	1.6	2.9	9.5	21.5	52.4	80.6	1.7	1.5	15.3
23	Apparel and other textile products-----	E4	6	6	0.8	4.3	0.8	1.3	3.7	6.9	1.5	8.3	(D)	0.6	2.6
	Colleton County -----	-	52	13	2.9	23.9	2.6	4.8	19.0	42.7	40.8	81.7	3.5	2.0	20.9
	Darlington County -----	-	83	31	8.5	106.7	6.7	13.7	71.2	223.2	469.2	689.1	34.1	8.6	136.9
	Dillon County -----	-	48	16	2.7	22.3	2.2	4.3	15.8	62.5	85.8	146.1	1.8	2.7	34.6
22	Textile mill products-----	-	10	9	1.7	14.7	1.5	2.9	11.2	47.6	65.2	110.2	1.4	1.8	27.9
2281	Yarn mills, except wool---	-	3	3	0.5	3.1	0.4	0.9	2.7	5.2	10.7	15.9	(D)	(NA)	(NA)
	Dorchester County -----	-	62	20	2.2	19.8	1.7	3.4	14.6	41.9	49.2	90.6	7.0	2.2	32.2
24	Lumber and wood products--	E1	25	3	0.5	3.1	0.4	0.7	2.6	5.8	11.2	16.7	(D)	0.5	6.0

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Edgefield County -----	-	52	13	2.1	19.1	1.8	3.6	14.0	41.6	70.1	111.7	1.3	1.7	23.6
22	Textile mill products -----	-	4	4	0.7	7.1	0.6	1.4	6.0	15.0	16.1	31.3	(Z)	(NA)	(NA)
	Fairfield County -----	-	94	8	1.9	15.4	1.6	3.2	11.3	31.4	57.3	88.4	1.0	2.4	18.4
	Florence County -----	-	142	56	12.0	122.9	9.7	18.5	86.1	332.7	290.5	617.0	21.6	11.5	175.8
20	Food and kindred products --	-	13	5	0.6	7.5	0.3	0.6	3.2	20.7	34.6	55.2	1.2	0.6	10.1
22	Textile mill products -----	-	8	7	1.0	8.1	0.9	1.7	6.7	31.0	37.4	68.9	0.3	2.4	18.2
23	Apparel and other textile products -----	-	11	8	1.7	9.7	1.5	2.5	7.8	14.6	10.0	24.9	(D)	2.0	14.8
24	Lumber and wood products --	-	41	12	0.8	6.6	0.7	1.3	4.9	20.2	20.9	41.1	(D)	1.0	10.0
34	Fabricated metal products ---	-	12	6	0.8	10.1	0.6	1.3	7.0	23.3	30.2	52.7	(D)	0.8	13.8
36	Electric and electronic equipment -----	-	5	3	2.9	31.0	2.3	4.3	21.3	82.5	39.6	115.9	8.9	(NA)	(NA)
	Georgetown County -----	-	71	18	5.2	61.5	4.5	8.5	48.3	126.5	248.0	372.9	18.2	4.7	80.1
23	Apparel and other textile products -----	-	7	4	0.7	2.9	0.6	1.0	2.1	3.9	1.3	5.1	(D)	(NA)	(NA)
	Greenville County -----	-	545	237	49.2	504.3	38.0	76.1	339.7	1 110.7	1 406.7	2 491.1	120.2	45.3	720.9
20	Food and kindred products --	-	31	18	1.4	14.3	1.0	1.8	7.7	52.7	117.1	169.9	3.3	1.6	32.9
22	Textile mill products -----	-	52	46	17.4	163.8	15.3	32.0	136.0	310.8	489.6	796.3	28.0	18.0	218.9
2221	Weaving mills, manmade fiber and silk -----	-	16	16	9.4	88.6	8.5	18.0	76.4	161.5	171.3	330.0	(D)	(NA)	(NA)
226	Textile finishing, except wool -----	-	5	4	1.6	13.9	1.3	2.7	10.3	23.4	40.2	52.6	(D)	(NA)	(NA)
23	Apparel and other textile products -----	-	35	28	5.4	35.0	4.5	8.0	27.2	65.7	64.7	132.5	(D)	6.5	57.6
26	Paper and allied products ---	-	13	7	1.9	21.9	1.5	3.2	15.8	47.0	57.2	101.7	(D)	1.6	36.1
27	Printing and publishing -----	E1	50	8	1.0	10.6	0.6	1.0	5.1	20.6	10.8	31.4	0.6	0.8	14.7
28	Chemicals and allied products -----	-	32	15	3.3	40.3	2.5	4.9	26.3	161.4	187.4	343.8	24.7	3.3	105.6
30	Rubber and miscellaneous plastics products -----	-	20	11	3.4	47.6	2.3	4.7	27.8	120.5	147.0	245.9	39.6	0.9	15.9
344	Fabricated structural metal products -----	-	26	4	0.5	5.2	0.3	0.6	3.1	10.6	20.4	31.8	(D)	(NA)	(NA)
35	Machinery, except electrical --	-	104	35	6.4	72.5	4.6	9.2	45.5	193.7	152.6	346.7	7.3	5.1	161.8
355	Special industry machinery --	-	40	19	3.5	38.9	2.6	5.1	26.3	70.2	48.4	116.5	5.0	3.4	61.0
--	Administrative and auxiliary --	-	30	19	1.6	23.6	-	-	-	-	-	-	-	(NA)	(NA)
	Greenwood County -----	-	102	39	12.1	126.3	9.8	19.5	87.4	235.0	406.8	630.9	26.7	12.1	209.9
23	Apparel and other textile products -----	-	5	5	0.8	4.4	0.7	1.2	3.5	6.1	3.0	9.1	(D)	0.7	4.4
	Hampton County -----	-	51	10	1.6	19.9	1.3	2.9	14.4	46.0	75.6	120.5	2.5	1.8	32.9
	Horry County -----	-	114	29	6.7	51.2	5.8	10.8	39.2	105.6	103.4	212.7	9.8	4.1	38.5
23	Apparel and other textile products -----	E1	7	5	2.0	11.1	1.6	2.6	8.0	18.3	12.2	30.6	(D)	(NA)	(NA)
24	Lumber and wood products --	E1	45	4	0.6	5.0	0.5	1.1	4.1	9.1	12.7	22.0	(D)	0.8	6.5
	Kershaw County -----	-	93	22	7.9	96.7	6.3	12.4	66.2	302.8	312.7	605.0	11.6	7.1	180.3
	Lancaster County -----	-	51	17	9.8	89.1	7.9	14.9	64.2	143.0	524.9	657.9	3.1	(D)	(D)
	Laurens County -----	-	92	28	9.3	92.4	8.1	16.1	73.7	199.4	191.2	388.8	12.0	9.5	143.8
22	Textile mill products -----	-	11	10	5.0	46.2	4.5	8.9	38.9	86.7	113.2	198.6	7.7	5.1	66.0
2221	Weaving mills, manmade fiber and silk -----	-	3	3	2.3	20.7	2.1	4.2	18.0	34.2	43.5	75.2	(D)	(NA)	(NA)
23	Apparel and other textile products -----	-	5	4	0.6	3.1	0.5	0.9	2.3	5.2	2.2	6.9	(D)	(NA)	(NA)
	Lee County -----	-	20	6	0.8	8.2	0.6	1.4	4.7	20.1	46.4	86.8	0.6	(D)	(D)
	Lexington County -----	-	168	65	10.8	116.9	8.8	16.4	76.7	261.5	338.7	589.8	65.5	9.9	157.6
22	Textile mill products -----	-	5	5	1.3	12.2	1.2	2.3	10.1	21.9	27.3	48.6	4.1	(NA)	(NA)
23	Apparel and other textile products -----	-	9	7	0.9	5.7	0.8	1.4	4.4	8.6	7.5	16.1	(D)	0.9	9.4
34	Fabricated metal products ---	E1	17	7	0.6	7.1	0.5	1.0	5.1	15.2	18.4	33.3	0.8	0.5	7.5
39	Miscellaneous manufacturing industries -----	E5	8	3	0.7	6.7	0.5	1.0	3.7	13.5	7.9	22.1	(D)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies.
For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
22	McCormick County -----	-	41	3	0.9	8.2	0.8	1.6	6.7	19.0	31.9	51.0	1.1	0.8	10.8
	Marion County-----	-	43	21	5.4	38.5	4.8	9.3	29.9	106.5	94.3	202.9	4.1	4.9	51.2
	Textile mill products -----	-	8	5	1.8	13.9	1.6	3.2	11.1	46.6	37.1	82.8	0.7	1.5	17.8
22	Marlboro County -----	-	35	19	4.2	35.0	3.5	7.2	27.3	76.5	164.7	242.4	(D)	4.5	48.1
	Textile mill products -----	-	6	6	2.1	21.0	1.8	3.9	17.0	40.9	118.4	161.1	(D)	2.4	23.9
	Newberry County -----	-	92	22	5.3	47.8	4.8	9.5	39.8	97.0	138.2	234.0	4.7	4.2	42.1
22	Textile mill products -----	-	6	4	2.1	19.3	2.0	4.0	17.2	35.3	35.3	69.1	(D)	2.8	28.0
	Apparel and other textile products -----	E2	5	5	0.9	5.9	0.8	1.5	5.2	12.1	8.0	18.6	(D)	(NA)	(NA)
	Lumber and wood products --	-	66	9	1.3	14.0	1.2	2.5	11.9	34.7	47.3	81.9	(D)	(NA)	(NA)
22	Oconee County -----	-	64	23	8.3	52.8	5.2	10.1	42.6	109.5	75.8	189.5	4.3	6.9	87.3
	Textile mill products -----	-	7	6	2.1	18.5	1.7	3.5	14.7	40.8	40.5	81.2	2.3	3.0	24.2
	Apparel and other textile products -----	-	12	10	1.7	10.3	1.4	2.5	8.5	16.2	8.9	24.9	(D)	(NA)	(NA)
23	Orangeburg County -----	-	113	37	8.3	80.3	8.8	14.1	58.4	208.5	278.9	480.5	8.3	7.1	117.6
	Food and kindred products --	E1	7	4	0.5	6.0	0.2	0.4	2.0	11.5	24.4	36.6	(D)	0.6	8.9
	Apparel and other textile products -----	-	8	8	2.0	12.2	1.8	3.7	9.9	19.5	15.4	34.4	(D)	2.0	13.9
233	Women's and misses' outerwear -----	E1	3	3	0.5	2.6	0.4	0.7	2.0	4.8	2.9	7.8	(D)	(NA)	(NA)
	Lumber and wood products --	-	48	11	2.0	18.9	1.8	4.1	15.4	34.9	82.0	116.8	(D)	1.6	22.7
	Machinery, except electrical --	-	11	8	1.4	16.1	1.0	2.0	9.9	39.3	71.5	103.4	(D)	0.8	27.1
35	Pickens County -----	-	117	47	17.5	166.6	14.9	29.3	120.4	338.7	481.3	796.0	39.1	14.9	217.8
	Textile mill products -----	-	23	20	7.9	74.5	7.4	14.5	65.3	143.5	264.5	402.8	24.4	7.7	125.8
	Weaving mills, manmade fiber and silk -----	-	8	8	4.7	44.0	4.5	8.7	40.4	85.0	194.9	276.1	18.8	(NA)	(NA)
229	Miscellaneous textile goods -----	E4	4	3	0.6	6.1	0.5	1.0	4.6	13.0	11.3	24.1	(D)	(NA)	(NA)
	Apparel and other textile products -----	-	7	5	0.9	6.3	0.8	1.2	4.0	16.9	13.4	29.1	(D)	1.0	10.4
	Richland County -----	-	223	80	14.1	160.8	9.6	18.9	84.4	386.1	383.8	734.7	25.7	11.7	158.3
20	Food and kindred products --	-	11	8	0.7	6.4	0.3	0.6	2.3	17.5	34.9	52.5	(D)	0.8	12.2
	Textile mill products -----	-	7	4	2.5	21.8	2.2	4.2	14.7	53.2	35.1	88.0	(D)	(NA)	(NA)
	Apparel and other textile products -----	-	16	10	1.3	7.8	1.1	2.2	6.1	10.0	20.2	30.4	(D)	1.3	8.0
27	Printing and publishing -----	-	46	7	1.2	12.9	0.6	1.1	5.3	25.8	11.6	37.3	2.4	(NA)	(NA)
	Stone, clay, and glass products -----	-	17	10	0.8	8.5	0.6	1.2	5.5	19.0	17.8	37.8	(D)	0.7	11.6
	Fabricated metal products ---	-	27	12	1.5	19.9	1.1	2.2	11.6	36.6	75.9	110.6	3.7	1.0	10.3
35	Machinery, except electrical --	E1	16	7	0.7	9.6	0.4	0.9	5.1	27.2	10.2	36.8	1.0	0.7	13.3
	Saluda County -----	-	43	9	1.4	10.9	1.2	2.2	8.6	23.0	50.4	73.2	(D)	1.0	9.4
	Apparel and other textile products -----	-	6	4	0.5	3.0	0.5	0.9	2.5	4.0	0.4	4.4	0.1	(NA)	(NA)
22	Spartanburg County -----	-	321	144	38.2	401.1	28.4	56.2	246.1	680.4	1 115.8	1 799.0	52.7	38.0	519.7
	Textile mill products -----	-	54	51	15.9	147.9	14.0	27.3	118.9	237.4	464.8	701.0	21.3	17.0	209.6
	Weaving mills, cotton -----	-	11	11	6.9	82.4	6.2	12.0	51.2	89.3	129.6	219.8	5.1	(NA)	(NA)
2211	Weaving mills, manmade fiber and silk -----	-	9	8	3.7	35.4	3.4	6.9	29.9	64.8	91.5	154.7	1.5	(NA)	(NA)
	Knitting mills -----	-	18	12	3.0	28.8	2.4	4.3	19.8	45.2	155.9	201.8	10.0	3.6	47.7
	Yarn and thread mills -----	-	7	7	0.8	5.0	0.5	1.0	4.2	7.0	18.1	25.0	0.2	1.0	16.2
229	Miscellaneous textile goods -----	-	11	7	0.6	6.4	0.6	1.2	5.2	17.4	38.0	55.2	(D)	(NA)	(NA)
	Apparel and other textile products -----	-	21	12	5.4	41.6	4.5	8.5	30.5	74.9	137.1	212.0	(D)	(NA)	(NA)
	Chemicals and allied products -----	-	22	8	3.6	45.6	2.3	4.6	23.2	121.8	186.8	300.2	15.1	(NA)	(NA)
34	Fabricated metal products ---	-	16	8	1.6	18.7	1.3	2.7	14.1	38.4	73.7	111.4	1.4	(NA)	(NA)
	Special industry machinery -----	-	13	4	1.0	10.5	0.8	1.7	7.7	6.1	9.1	29.5	1.2	(NA)	(NA)
	Textile machinery -----	-	13	4	1.0	10.5	0.8	1.7	7.7	6.1	9.1	29.5	1.2	(NA)	(NA)
3552	Administrative and auxiliary --	-	18	14	3.0	49.9	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	E1	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Sumter County -----	-	74	34	8.7	73.6	7.3	14.5	57.0	164.2	256.2	418.7	8.4	7.5	85.1
22	Textile mill products -----	-	4	4	1.3	10.9	1.3	2.5	9.5	24.8	50.8	75.3	1.3	(NA)	(NA)
23	Apparel and other textile products -----	-	6	4	0.7	3.9	0.6	1.0	3.1	8.1	10.1	17.7	(D)	(NA)	(NA)
25	Furniture and fixtures -----	-	4	3	1.6	12.5	1.4	3.0	10.0	25.9	19.8	45.2	0.5	1.7	20.6
34	Fabricated metal products ---	-	8	2	1.4	12.8	1.1	2.1	10.1	24.4	24.4	50.2	0.7	(NA)	(NA)
	Union County -----	-	43	20	7.5	70.5	6.4	13.0	54.0	150.6	151.5	286.7	6.2	5.9	84.4
22	Textile mill products -----	-	15	13	6.3	58.4	5.4	11.0	45.3	113.3	120.2	232.4	5.7	6.2	72.1
	Williamsburg County -----	-	46	16	2.5	21.8	2.2	4.3	16.4	70.4	62.9	130.7	5.7	1.7	26.9
30	Rubber and miscellaneous plastics products -----	-	3	3	1.5	13.1	1.3	2.6	10.0	42.4	34.5	74.3	(D)	(NA)	(NA)
	York County -----	-	169	57	15.6	161.3	13.0	25.6	121.6	348.4	431.6	773.0	36.1	14.6	178.4
22	Textile mill products -----	-	33	20	9.2	83.8	8.3	16.3	71.1	137.0	189.4	300.1	(D)	9.4	88.9
228	Yarn and thread mills -----	-	11	7	1.5	12.2	1.4	2.8	11.1	26.1	37.0	62.9	0.7	1.1	7.6
23	Apparel and other textile products -----	E1	18	10	1.0	6.4	0.9	1.7	5.4	9.1	10.2	19.8	(D)	0.5	2.7

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	E1	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Allendale -----	-	11	6	0.7	5.5	0.6	1.3	4.2	12.8	20.1	32.9	2.2	0.6	4.6
	Anderson -----	-	82	36	9.1	93.7	7.6	15.6	71.2	163.8	228.6	394.8	25.0	11.4	141.3
	Barnwell -----	-	12	7	1.6	15.2	1.3	2.7	11.7	35.8	36.8	72.4	(D)	(D)	(D)
	Batesburg -----	-	19	4	0.9	8.7	0.8	1.5	6.4	19.5	20.8	39.4	(D)	0.9	12.1
	Belton -----	-	17	10	1.7	14.6	1.5	2.9	12.1	32.1	37.8	71.2	2.5	2.0	19.7
	Camden -----	-	38	8	1.0	9.3	0.9	1.8	7.5	14.6	12.0	27.0	0.5	(D)	(D)
	Cayce -----	-	24	12	1.7	21.3	1.3	2.7	14.0	32.9	56.6	88.5	(D)	1.6	20.5
	Charleston -----	-	59	18	2.4	30.1	1.3	2.5	13.2	63.6	109.3	173.2	(D)	3.4	56.1
20	Food and kindred products --	-	8	5	0.6	6.0	0.1	0.3	1.1	21.8	31.5	53.4	(D)	(NA)	(NA)
27	Printing and publishing -----	-	20	4	0.6	5.9	0.2	0.4	2.0	13.7	4.4	18.1	(D)	0.9	10.9
	Cheraw -----	-	26	9	1.1	11.3	0.8	1.8	7.8	30.7	74.0	101.8	(D)	1.9	20.1
	Clover -----	-	25	9	1.7	14.0	1.5	3.1	12.0	30.5	35.8	66.1	(D)	0.9	3.4
22	Textile mill products -----	-	9	5	1.2	10.6	1.2	2.4	9.5	23.9	29.6	53.2	0.7	0.7	2.4
	Columbia -----	-	120	33	4.2	46.9	2.9	5.7	26.9	82.3	131.5	214.7	4.3	4.1	(NA)
34	Fabricated metal products ---	-	14	6	1.0	13.8	0.6	1.3	7.3	22.9	64.7	87.4	(D)	0.7	5.1
	Conway -----	-	42	14	2.3	18.5	2.0	3.9	14.9	38.2	61.3	104.4	4.1	1.1	11.5
	Darlington -----	-	34	7	1.3	12.6	1.2	2.3	10.1	25.9	47.9	70.9	(D)	(D)	(D)
	Denmark -----	-	14	5	0.7	5.1	0.6	1.0	3.9	29.8	25.5	55.7	(D)	0.8	12.6
	Dillon -----	-	23	10	1.4	11.9	1.2	2.3	8.7	37.3	44.8	80.5	0.9	2.1	27.9
	Florence -----	-	59	16	2.3	24.4	1.7	3.3	16.7	57.2	63.2	119.5	2.9	5.4	91.1
20	Food and kindred products --	-	7	3	0.5	6.1	0.2	0.5	2.7	17.0	28.1	45.1	(D)	(NA)	(NA)
	Fountain Inn -----	-	19	5	1.1	10.3	1.0	1.9	8.3	15.2	22.7	41.7	0.5	0.7	7.2
	Gaffney -----	-	44	20	3.7	39.7	3.1	6.3	29.3	67.8	125.5	194.9	16.4	4.8	49.5
22	Textile mill products -----	-	10	8	1.8	17.9	1.5	3.1	13.9	30.9	44.0	77.5	(D)	2.9	32.3
	Greenville -----	-	203	83	12.4	130.6	8.9	17.3	77.8	221.7	259.1	490.6	17.0	12.3	170.6
22	Textile mill products -----	-	11	8	2.3	22.3	2.0	4.2	18.3	41.5	58.4	99.4	1.7	2.9	35.3
27	Printing and publishing -----	-	31	6	0.8	8.5	0.4	0.8	3.7	17.6	8.6	26.2	0.5	(NA)	(NA)
34	Fabricated metal products ---	-	18	7	0.6	7.5	0.5	1.0	4.7	10.1	12.5	22.5	1.1	(NA)	(NA)
35	Machinery, except electrical --	-	36	15	1.8	21.8	1.2	2.3	14.8	42.6	27.6	69.1	2.6	1.0	15.2
355	Special industry machinery --	-	17	10	1.5	19.0	1.1	2.0	13.1	35.6	20.6	55.8	(D)	(NA)	(NA)
-	Administrative and auxiliary --	-	19	11	0.7	12.2	-	-	-	-	-	-	-	(NA)	(NA)
	Greenwood -----	-	65	23	7.7	83.4	5.9	11.9	53.9	123.1	266.5	380.1	10.5	6.4	117.8
	Hartsville -----	-	35	18	4.0	56.8	2.8	5.7	32.0	80.2	125.2	203.4	(D)	4.7	59.8
	Honea Path -----	-	10	5	1.4	12.5	1.2	2.5	10.1	35.3	29.3	64.0	1.0	(D)	(D)
	Johnston -----	-	7	4	0.8	6.5	0.7	1.2	4.4	18.9	42.2	60.8	(D)	0.7	7.5
	Kingstree -----	-	17	9	1.5	14.8	1.2	2.5	10.5	29.5	46.7	77.4	3.4	1.4	23.8
	Lake City -----	-	13	5	0.7	5.6	0.6	1.0	4.3	13.2	13.7	27.5	0.5	1.1	12.8
	Manning -----	-	24	6	0.6	3.5	0.5	0.8	2.6	5.0	3.5	8.4	0.2	0.8	8.9
	Marion -----	-	24	11	2.8	20.1	2.5	4.9	14.9	68.2	42.7	111.2	1.6	2.7	33.4
	Mauldin -----	-	23	7	1.5	15.1	1.0	2.0	8.2	73.8	72.9	146.2	(D)	2.1	41.1
	Mullins -----	-	11	5	1.3	8.3	1.2	2.2	7.0	18.3	20.8	41.2	(D)	(D)	(D)
	Myrtle Beach -----	-	32	6	1.7	15.0	1.5	3.0	11.1	28.8	17.7	45.8	4.4	(NA)	(NA)
	Newberry -----	-	26	4	1.6	13.9	1.4	2.9	11.9	18.9	18.1	36.0	(D)	2.1	24.3
	North Charleston -----	-	46	16	2.5	36.8	1.6	2.9	20.5	70.6	103.5	172.5	(D)	(NA)	(NA)
	Orangeburg -----	-	63	15	2.1	19.7	1.6	3.1	12.3	38.4	58.5	96.8	2.2	3.6	62.3
	Pendleton -----	-	10	6	1.1	11.6	0.9	1.8	7.8	25.0	20.1	45.0	(D)	(D)	(D)
	Pickens -----	-	29	12	5.3	46.4	4.5	9.0	37.2	106.0	141.5	232.1	7.7	3.9	40.9
	Rock Hill -----	-	78	26	5.5	53.9	4.6	9.2	42.0	88.9	93.6	180.0	13.2	5.8	66.8
22	Textile mill products -----	-	11	7	4.2	41.1	3.6	7.3	33.7	62.9	60.5	120.5	(D)	(NA)	(NA)
	Simpsonville -----	-	22	8	2.2	23.3	1.8	3.7	17.3	50.8	55.8	100.1	(D)	2.3	48.9
	Spartanburg -----	-	134	50	12.3	134.1	8.4	16.2	71.3	202.0	378.0	596.5	19.2	14.6	189.8
20	Food and kindred products --	-	6	4	0.8	9.3	0.5	1.0	4.7	23.2	41.6	65.0	2.1	(NA)	(NA)
22	Textile mill products -----	-	20	14	4.5	42.2	3.7	6.7	30.5	55.1	180.7	237.0	10.8	5.5	64.7
2257	Circular knit fabric mills --	-	5	4	0.5	4.7	0.4	0.9	4.1	8.5	14.5	23.5	(D)	(NA)	(NA)
35	Machinery, except electrical --	-	21	4	1.0	10.6	0.8	1.7	7.6	5.6	8.5	28.6	1.3	1.1	15.4
355	Special industry machinery --	-	7	3	0.9	9.5	0.7	1.5	7.0	4.3	7.4	26.0	1.1	(NA)	(NA)
3552	Textile machinery -----	-	7	3	0.9	9.5	0.7	1.5	7.0	4.3	7.4	26.0	1.1	(NA)	(NA)
	Summerville -----	-	32	9	1.0	9.5	0.8	1.6	6.5	16.2	26.5	42.2	(D)	1.3	14.1
	Sumter -----	-	63	24	4.5	36.4	3.7	7.3	27.6	75.7	131.8	205.3	3.8	6.8	80.0
25	Furniture and fixtures -----	-	4	3	1.6	12.5	1.4	3.0	10.0	25.9	19.8	45.2	0.5	1.7	20.6
	Union -----	-	25	13	4.3	40.8	3.7	7.5	29.8	88.3	92.7	178.0	4.9	4.3	53.1
	Walterboro -----	-	21	6	1.2	9.2	1.1	2.1	7.7	16.4	9.7	25.7	0.7	0.8	9.5
	West Columbia -----	-	43	12	1.0	9.8	0.8	1.6	5.8	24.2	29.3	53.1	0.9	1.2	19.2

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
SOUTH CAROLINA	4229	236	2	429	319	1269	63	68	359	164	9	93	8	181	52	232	382	79	70	27	93
1 TO 4 EMPLOYEES	1910	88	-	43	48	945	21	11	224	49	2	15	2	52	17	88	177	29	30	11	51
5 TO 9 EMPLOYEES	366	36	-	10	13	88	5	6	35	26	2	13	-	24	5	23	51	4	7	3	8
10 TO 19 EMPLOYEES	393	17	-	19	20	92	8	10	40	24	2	8	-	37	3	36	42	5	6	2	7
20 TO 49 EMPLOYEES	461	38	-	37	53	78	11	5	38	21	1	16	3	32	6	28	37	6	9	2	12
50 TO 99 EMPLOYEES	304	26	-	33	45	41	9	6	10	14	1	14	-	19	6	21	27	4	7	1	4
100 TO 249 EMPLOYEES	378	22	1	91	87	20	6	17	7	10	-	14	1	10	10	25	20	13	5	1	16
250 TO 499 EMPLOYEES	219	6	1	101	34	3	1	5	4	5	1	6	-	4	4	8	14	8	2	3	7
500 TO 999 EMPLOYEES	141	2	-	73	17	1	1	4	1	9	-	1	-	2	1	1	9	6	4	3	1
1000 TO 2499 EMPLOYEES	50	1	-	19	2	1	-	-	-	2	-	-	-	-	-	-	4	3	-	-	3
2500 EMPLOYEES AND OVER	7	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-
ABBEVILLE COUNTY	34	1	-	9	5	11	-	1	2	-	-	1	-	-	1	1	2	-	-	-	-
1 TO 4 EMPLOYEES	18	1	-	1	1	10	-	1	2	-	-	1	-	-	-	-	2	-	-	-	-
5 TO 9 EMPLOYEES	4	-	-	1	2	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
10 TO 19 EMPLOYEES	6	-	-	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 49 EMPLOYEES	6	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 TO 99 EMPLOYEES	95	6	-	11	6	19	3	3	10	3	-	1	-	7	-	8	5	3	3	2	5
100 TO 249 EMPLOYEES	48	4	-	1	1	17	-	-	8	1	-	-	-	5	-	4	3	3	1	1	-
250 TO 499 EMPLOYEES	22	1	-	-	2	2	3	-	2	1	-	-	-	1	-	3	2	-	2	-	3
500 TO 999 EMPLOYEES	7	1	-	1	1	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-
1000 TO 2499 EMPLOYEES	18	1	-	10	2	-	-	1	-	1	-	-	-	1	-	-	-	-	-	1	2
ALLENDALE COUNTY	23	3	-	3	4	10	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-
1 TO 4 EMPLOYEES	14	3	-	1	1	7	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-
5 TO 9 EMPLOYEES	2	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 49 EMPLOYEES	167	11	-	35	21	9	-	2	11	7	-	5	-	8	3	18	21	8	1	2	4
50 TO 99 EMPLOYEES	80	6	-	1	5	7	-	2	8	5	-	1	-	6	1	15	14	5	1	2	1
100 TO 249 EMPLOYEES	41	4	-	8	7	2	-	-	2	1	-	2	-	1	1	2	5	1	1	-	4
250 TO 499 EMPLOYEES	19	1	-	7	2	-	-	-	1	1	-	1	-	1	-	1	2	2	-	-	-
500 TO 999 EMPLOYEES	27	1	-	19	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-
BARBERG COUNTY	41	5	-	3	3	21	-	-	1	1	-	1	1	-	-	2	1	1	1	-	-
1 TO 4 EMPLOYEES	26	5	-	2	2	4	-	-	1	1	-	1	1	-	-	1	1	-	-	-	-
5 TO 9 EMPLOYEES	10	-	-	2	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
10 TO 19 EMPLOYEES	4	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
20 TO 49 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 TO 99 EMPLOYEES	21	-	-	3	3	6	-	-	1	1	-	-	-	1	-	2	1	1	-	1	1
100 TO 249 EMPLOYEES	9	-	-	1	2	5	-	-	1	1	-	-	-	1	-	1	-	-	-	-	-
250 TO 499 EMPLOYEES	6	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BEAUFORT COUNTY	48	12	-	1	3	6	1	1	9	3	-	1	-	3	1	2	2	1	1	1	2
1 TO 4 EMPLOYEES	33	4	-	1	1	6	1	1	7	1	-	1	-	2	1	1	2	-	-	-	1
5 TO 9 EMPLOYEES	10	2	-	1	1	-	-	-	2	2	-	-	-	1	1	-	-	-	-	-	1
10 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 49 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50 TO 99 EMPLOYEES	52	-	-	3	5	27	-	-	1	2	-	2	-	2	-	1	5	1	1	1	1
100 TO 249 EMPLOYEES	33	-	-	-	1	4	-	-	1	-	-	-	-	-	-	1	4	1	-	-	-
250 TO 499 EMPLOYEES	6	-	-	2	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
500 TO 999 EMPLOYEES	5	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BARNWELL COUNTY	15	2	-	-	1	6	1	-	2	1	-	-	-	-	-	-	1	1	-	-	-
1 TO 4 EMPLOYEES	10	1	-	-	1	5	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-
5 TO 9 EMPLOYEES	3	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 49 EMPLOYEES	209	19	-	2	5	31	4	6	40	15	2	4	-	12	2	13	19	1	18	4	5
50 TO 99 EMPLOYEES	145	12	-	1	8	25	3	4	35	7	1	3	-	6	1	10	16	1	8	3	5
100 TO 249 EMPLOYEES	38	3	-	1	1	4	-	-	3	6	-	-	-	1	-	2	-	1	1	-	1
250 TO 499 EMPLOYEES	15	3	-	1	1	2	-	-	2	1	-	1	-	1	-	1	-	-	-	-	-
500 TO 999 EMPLOYEES	11	1	-	-	2	-	-	1	-	1	-	-	-	-	-	-	3	-	1	-	-
CHEROKEE COUNTY	57	3	-	16	5	5	1	1	8	2	-	2	-	6	-	-	5	-	-	-	2
1 TO 4 EMPLOYEES	28	1	-	2	3	1	-	-	1	-	-	-	-	4	-	-	1	-	-	-	1
5 TO 9 EMPLOYEES	11	1	-	6	1	-	-	-	-	-	-	-	-	2	-	-	3	-	-	-	-
10 TO 249 EMPLOYEES	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20---food and kindred products; 21---tobacco manufactures; 22---textile mill products; 23---apparel and other textile products; 24---lumber and wood products; 25---furniture and fixtures; 26---paper and allied products; 27---printing and publishing; 28---chemicals and allied products; 29---petroleum and coal products; 30---rubber and miscellaneous plastics products; 31---leather and leather products; 32---stone, clay, and glass products; 33---primary metal industries; 34---fabricated metal products; 35---machinery, except electrical; 36---electric and electronic equipment; 37---transportation equipment; 38---instruments and related products; 39---miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
CHESTER COUNTY	70	2	-	11	10	29	-	-	4	1	-	-	-	2	2	4	3	-	-	-	-	1	1
1 TO 19 EMPLOYEES	39	1	-	2	2	28	-	-	3	-	-	-	-	1	1	2	1	-	-	-	-	1	1
20 TO 99 EMPLOYEES	9	1	-	-	3	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	10	1	-	1	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	12	-	-	10	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
CHESTERFIELD COUNTY	76	6	-	15	10	23	-	1	1	1	-	1	1	3	-	6	5	1	-	-	1	1	1
1 TO 19 EMPLOYEES	41	2	-	2	3	20	-	-	1	1	-	1	1	2	-	1	4	-	-	-	1	1	1
20 TO 99 EMPLOYEES	16	2	-	6	1	3	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	12	1	-	3	6	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	4	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-
CLARENDON COUNTY	40	1	-	-	6	26	-	-	2	-	-	-	-	1	-	-	3	-	-	-	-	-	1
1 TO 19 EMPLOYEES	27	1	-	-	-	22	-	-	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	7	-	-	-	5	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
COLLETON COUNTY	52	3	-	2	4	35	-	1	2	-	-	1	-	1	1	1	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	39	3	-	-	1	31	-	1	1	-	-	1	-	1	1	1	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	7	-	-	-	1	4	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	2	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
DARLINGTON COUNTY	83	4	-	3	4	38	-	5	7	4	1	1	-	4	1	3	4	2	1	-	-	1	1
1 TO 19 EMPLOYEES	52	2	-	-	1	33	-	2	6	1	1	1	-	3	-	3	3	1	-	-	-	-	-
20 TO 99 EMPLOYEES	13	1	-	-	2	4	-	-	1	1	1	-	-	1	-	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	8	1	-	-	2	1	-	-	1	1	-	-	-	-	-	-	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	10	-	-	3	1	-	-	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
DILLON COUNTY	48	4	-	10	4	23	-	1	2	1	-	-	-	-	-	1	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	30	3	-	1	1	21	-	1	1	-	-	-	-	-	-	1	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	8	1	-	3	2	2	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	8	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DORCHESTER COUNTY	62	3	-	4	4	25	-	1	6	-	-	3	-	4	2	3	5	1	-	-	-	1	1
1 TO 19 EMPLOYEES	42	2	-	1	1	22	-	-	6	-	-	1	-	1	2	2	4	1	-	-	-	-	-
20 TO 99 EMPLOYEES	13	1	-	2	3	2	-	-	-	-	-	1	-	2	1	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
EDGEFIELD COUNTY	52	1	-	4	2	32	-	-	4	1	-	-	-	-	-	2	3	1	-	-	-	-	-
1 TO 19 EMPLOYEES	39	-	-	-	-	31	-	-	-	-	-	2	-	-	-	-	3	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	1	-	1	-	1	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FAIRFIELD COUNTY	94	-	-	2	2	82	-	1	-	-	-	-	-	4	-	1	1	-	-	-	-	1	1
1 TO 19 EMPLOYEES	86	-	-	-	-	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLORENCE COUNTY	142	13	1	8	11	41	-	2	3	12	3	-	4	9	-	12	12	5	2	-	-	3	3
1 TO 19 EMPLOYEES	86	8	-	1	3	29	-	1	10	2	-	-	2	6	-	6	10	-	2	-	-	2	2
20 TO 99 EMPLOYEES	29	4	-	3	2	11	-	1	1	-	-	-	1	2	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	14	-	1	3	4	1	-	-	1	-	-	-	1	-	-	2	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	13	1	-	1	2	-	-	1	-	1	-	-	-	-	-	-	-	3	-	-	-	-	-
GEORGETOWN COUNTY	71	3	-	2	7	44	-	-	2	1	-	-	-	1	3	3	2	-	-	-	1	-	-
1 TO 19 EMPLOYEES	53	1	-	-	-	42	-	-	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	10	1	-	1	3	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	1	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GREENVILLE COUNTY	545	31	-	52	35	44	-	16	13	50	32	2	20	5	16	8	104	20	5	2	16	30	30
1 TO 19 EMPLOYEES	308	13	-	6	7	38	-	9	6	42	17	2	9	2	9	6	30	69	15	4	1	12	11
20 TO 99 EMPLOYEES	140	13	-	9	15	5	-	5	3	6	10	-	8	2	6	2	10	27	4	1	1	2	14
100 TO 249 EMPLOYEES	45	-	-	8	15	1	-	2	3	1	2	-	1	1	-	-	4	1	1	-	-	1	5
250 EMPLOYEES AND OVER	52	-	-	29	6	-	-	1	1	1	3	-	3	-	-	-	6	2	1	-	-	1	1

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 — Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastic products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
GREENWOOD COUNTY	102	7	-	13	5	41	-	-	6	2	1	2	-	5	2	2	4	1	1	2	3	3	3
1 TO 19 EMPLOYEES	63	3	-	2	2	39	-	-	3	1	1	1	-	4	1	2	2	-	2	1	1	2	1
20 TO 99 EMPLOYEES	15	1	-	1	2	2	-	-	2	-	-	-	-	1	1	-	1	-	-	-	-	2	2
100 TO 249 EMPLOYEES	17	1	-	10	-	-	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	1
250 EMPLOYEES AND OVER	17	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAMPTON COUNTY	51	6	-	1	2	32	-	-	1	1	1	3	-	1	-	1	2	-	1	-	-	-	-
1 TO 19 EMPLOYEES	41	5	-	1	1	27	-	-	1	1	1	1	-	1	-	1	1	-	1	-	-	-	-
20 TO 99 EMPLOYEES	9	1	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HORRY COUNTY	114	5	-	1	7	45	12	1	13	2	1	1	-	7	-	4	8	2	-	-	6	-	-
1 TO 19 EMPLOYEES	85	20	-	2	41	7	7	1	12	1	-	1	-	5	-	2	6	-	-	-	4	-	-
20 TO 99 EMPLOYEES	17	1	-	-	2	2	5	-	1	1	1	1	-	2	-	1	1	-	-	-	1	-	-
100 TO 249 EMPLOYEES	6	-	-	-	1	2	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JASPER COUNTY	17	1	-	-	1	11	-	-	2	-	-	-	-	1	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	16	1	-	-	1	10	-	-	2	-	-	-	-	1	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KERSHAW COUNTY	93	-	-	7	7	61	-	-	4	4	-	1	-	3	-	3	2	-	-	-	1	-	-
1 TO 19 EMPLOYEES	71	-	-	2	5	57	-	-	2	2	-	-	-	-	-	2	2	-	-	-	-	-	-
20 TO 99 EMPLOYEES	13	-	-	2	1	4	-	-	2	1	-	-	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	2	1	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LANCASTER COUNTY	51	2	-	3	1	17	-	-	1	1	-	-	-	5	-	1	10	2	1	-	4	3	1
1 TO 19 EMPLOYEES	34	1	-	-	1	17	-	-	1	1	-	-	-	3	-	1	6	1	1	-	2	2	1
20 TO 99 EMPLOYEES	8	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAURENS COUNTY	92	3	-	11	5	42	1	1	6	3	-	2	-	4	-	3	9	1	1	-	-	-	-
1 TO 19 EMPLOYEES	64	2	-	1	1	40	1	1	6	3	-	-	-	2	-	1	6	1	1	-	-	-	-
20 TO 99 EMPLOYEES	11	1	-	1	2	1	-	-	1	1	-	2	-	-	-	1	2	-	-	-	-	-	-
100 TO 249 EMPLOYEES	17	-	-	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	10	-	-	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LEE COUNTY	20	2	-	3	3	8	-	-	1	-	-	-	-	1	-	1	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LEXINGTON COUNTY	168	10	-	5	9	29	3	3	20	7	-	3	-	8	7	17	24	4	7	2	8	2	1
1 TO 19 EMPLOYEES	103	7	-	-	2	25	3	-	14	4	-	1	-	3	2	10	18	1	6	1	5	5	1
20 TO 99 EMPLOYEES	33	2	-	3	4	4	-	1	5	1	-	2	-	5	1	5	2	1	1	-	-	-	-
100 TO 249 EMPLOYEES	21	1	-	-	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	11	-	-	2	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-
MC CORMICK COUNTY	41	1	-	2	2	35	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	38	1	-	1	1	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARTON COUNTY	43	2	1	8	4	12	3	2	5	-	-	1	-	2	-	-	1	1	1	-	-	-	-
1 TO 19 EMPLOYEES	22	-	-	3	3	8	2	2	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	8	1	-	-	3	3	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	9	1	1	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARLBORO COUNTY	35	2	-	6	4	6	1	1	2	-	-	-	-	4	1	1	3	1	2	-	-	-	1
1 TO 19 EMPLOYEES	16	-	-	-	1	5	1	1	1	-	-	-	-	3	-	1	2	1	1	-	-	-	-
20 TO 99 EMPLOYEES	7	2	-	3	3	3	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	3	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEWBERRY COUNTY	92	5	-	6	5	66	-	1	3	-	-	-	-	-	-	1	2	1	1	-	-	-	1
1 TO 19 EMPLOYEES	70	3	-	2	3	57	-	-	3	-	-	-	-	-	-	1	2	1	1	-	-	-	-
20 TO 99 EMPLOYEES	11	1	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	9	1	-	4	2	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
OCONEE COUNTY	64	2	-	7	12	25	1	-	3	-	-	1	-	3	1	1	3	-	-	1	2	2	-
1 TO 19 EMPLOYEES	41	2	-	1	2	24	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	9	-	-	1	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	1	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-
250 EMPLOYEES AND OVER	10	-	-	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
ORANGEBURG COUNTY	113	7	-	5	8	48	3	-	6	5	-	-	-	9	-	5	11	2	2	-	-	3	-
1 TO 19 EMPLOYEES	76	3	-	3	3	37	2	-	5	4	-	-	-	7	-	4	5	1	1	-	-	3	-
20 TO 99 EMPLOYEES	14	3	-	-	-	7	1	-	1	-	-	-	-	1	-	-	1	-	-	-	-	3	-
100 TO 249 EMPLOYEES	10	-	-	-	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	13	1	-	2	3	2	-	-	-	1	-	-	-	1	-	1	2	-	-	-	-	-	-
PICKENS COUNTY	117	4	-	23	7	36	-	1	8	4	-	3	-	1	2	5	12	1	5	-	-	2	3
1 TO 19 EMPLOYEES	70	4	-	3	2	32	-	1	7	3	-	2	-	1	-	4	7	-	3	-	-	1	-
20 TO 99 EMPLOYEES	13	-	-	-	1	4	-	-	1	-	-	-	-	-	-	1	1	-	1	-	-	-	-
100 TO 249 EMPLOYEES	11	-	-	6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	23	-	-	14	1	-	-	-	-	1	-	1	-	-	-	-	2	1	1	-	-	1	-
RICHLAND COUNTY	223	11	-	7	16	25	2	3	46	12	2	3	-	17	-	27	16	6	6	4	4	15	5
1 TO 19 EMPLOYEES	183	5	-	3	6	20	1	1	39	7	2	3	-	7	-	15	9	3	4	4	4	15	3
20 TO 99 EMPLOYEES	51	3	-	1	5	5	1	1	5	3	-	-	-	8	-	6	5	1	2	-	-	3	2
100 TO 249 EMPLOYEES	16	3	-	1	4	-	-	-	-	-	-	-	-	-	-	5	1	-	-	-	-	1	-
250 EMPLOYEES AND OVER	13	-	-	2	1	-	-	1	2	2	-	-	-	-	-	1	1	2	-	-	-	-	-
SALUDA COUNTY	43	5	-	4	6	20	-	-	1	2	-	-	-	2	-	-	-	1	1	-	-	-	-
1 TO 19 EMPLOYEES	34	4	-	3	2	19	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	1	-	1	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPARTANBURG COUNTY	321	13	-	64	21	28	1	11	30	22	-	13	1	11	10	16	44	4	4	3	3	7	18
1 TO 19 EMPLOYEES	177	8	-	13	9	23	1	3	27	14	-	5	1	6	8	8	34	2	3	2	4	4	7
20 TO 99 EMPLOYEES	60	1	-	19	4	3	-	3	2	3	-	6	1	2	2	4	5	-	-	-	-	7	5
100 TO 249 EMPLOYEES	41	3	-	9	2	1	-	4	1	3	-	1	-	2	-	3	3	2	-	1	-	-	-
250 EMPLOYEES AND OVER	43	1	-	23	6	1	-	1	2	2	-	-	-	1	-	1	2	-	-	-	-	-	-
SUMTER COUNTY	74	8	-	4	6	15	4	1	9	2	-	1	-	2	2	8	5	2	2	1	1	3	-
1 TO 19 EMPLOYEES	40	3	-	1	2	11	1	1	8	1	-	1	-	-	1	6	4	-	-	-	-	-	-
20 TO 99 EMPLOYEES	17	4	-	1	2	3	-	1	1	-	-	-	-	2	1	-	1	-	-	-	-	2	-
100 TO 249 EMPLOYEES	8	-	-	1	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	9	1	-	2	1	-	-	-	-	-	-	-	-	-	-	2	-	-	-	1	-	-	-
UNION COUNTY	43	-	-	15	3	15	-	-	2	3	-	1	-	2	-	1	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	23	-	-	2	2	15	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	1	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	10	-	-	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WILLIAMSBURG COUNTY	46	2	-	2	4	21	1	-	3	4	-	3	-	-	-	-	3	-	1	-	-	2	-
1 TO 19 EMPLOYEES	30	2	-	1	2	15	1	-	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	10	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	1	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
YORK COUNTY	169	5	-	33	18	38	-	4	10	9	1	6	-	8	2	8	16	2	1	-	-	4	4
1 TO 19 EMPLOYEES	112	4	-	13	8	37	-	-	8	7	1	2	-	7	1	6	13	3	-	-	-	3	1
20 TO 99 EMPLOYEES	28	1	-	5	6	3	-	-	2	1	-	2	-	2	-	1	3	-	-	-	-	1	1
100 TO 249 EMPLOYEES	17	-	-	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	12	-	-	8	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

¹ Represents zero.

² Only those counties and size classes that include data for manufacturing establishments are shown.

South Dakota

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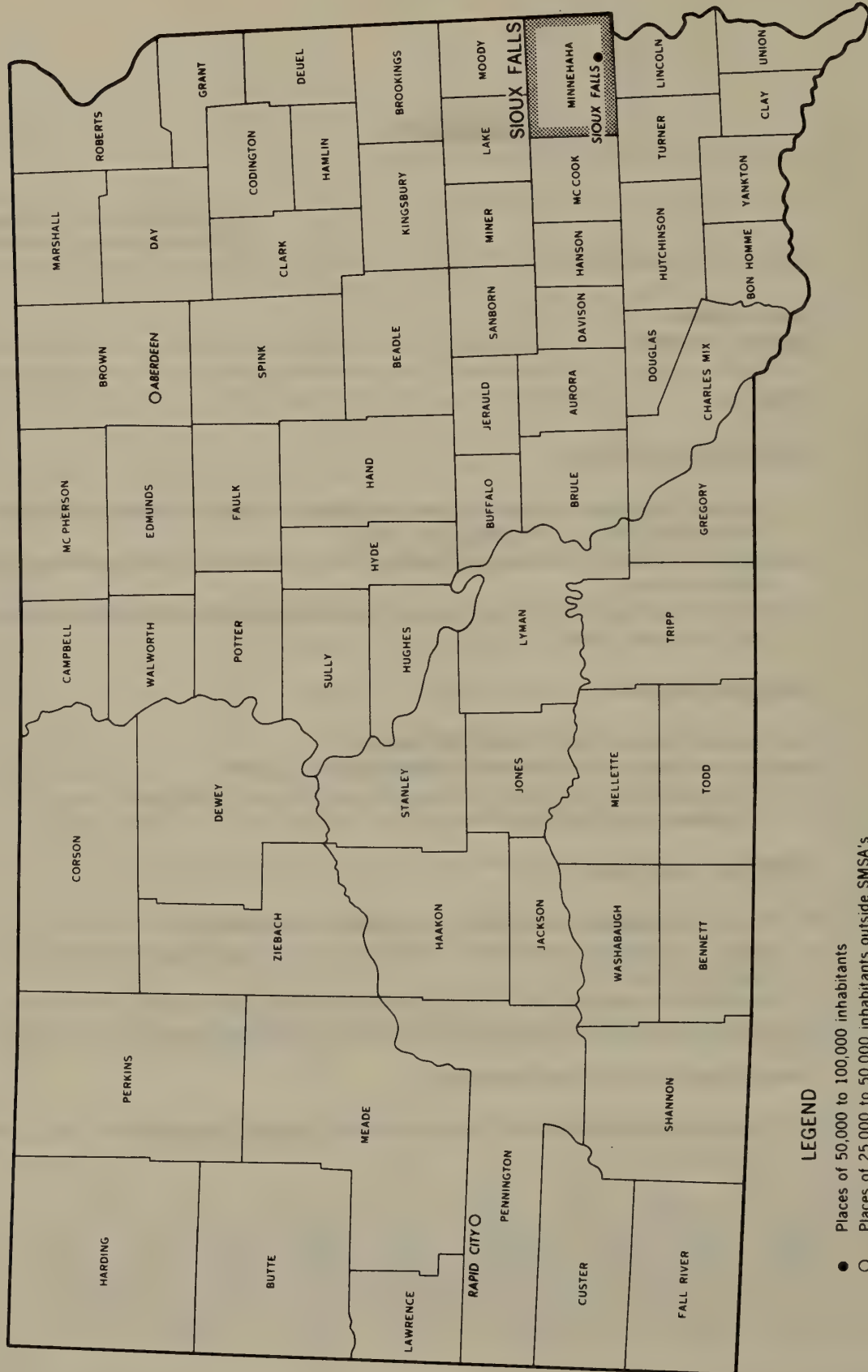
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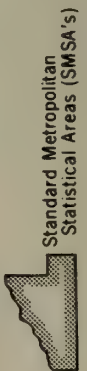
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SOUTH DAKOTA



LEGEND

- Places of 50,000 to 100,000 inhabitants
- Places of 25,000 to 50,000 inhabitants outside SMSA's



Standard Metropolitan
Statistical Areas (SMSA's)

SUMMARY OF FINDINGS

In 1977, 22.5 thousand persons were employed in South Dakota's manufacturing establishments. This figure represented an increase of .29 percent from the 1972 figure of 17.4 thousand workers.

The total value added by manufacture for the State amounted to \$612 million in 1977, an increase of approximately 115 percent from the 1972 figure of \$285 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were food and kindred products; machinery, except electrical; lumber and wood products; and printing and publishing. They accounted for approximately 66 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 72 percent of the State's employment.

The most important counties in the State ranked by employment were Minnehaha, Pennington, Brown, and Yankton. They accounted for approximately 58 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 63 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 3 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
South Dakota:						
1977.....	22.5	251.4	22.4	249.0	.1	2.4
1972.....	17.4	134.5	(D)	(D)	(D)	(D)
1967.....	15.5	92.5	(D)	(D)	(D)	(D)
1963.....	13.2	70.0	13.1	69.4	.1	.5
STANDARD METROPOLITAN STATISTICAL AREA						
Sioux Falls:						
1977.....	7.6	100.5	(D)	(D)	(D)	(D)
1972.....	6.9	64.6	(D)	(D)	(D)	(D)
1967.....	6.9	47.0	(D)	(D)	(D)	(D)
1963.....	6.1	36.8	6.0	36.5	(Z)	.2

(D) Withheld to avoid disclosing operations of individual companies. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of symbols, see appendix B.																
Year ¹	Establishments ²		All employees ²		Production workers							Comparative indexes and U.S. employment				
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	Index of State em- ploy- ment change (1977= 100)	United States		
														Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)	
SOUTH DAKOTA																
1977 CENSUS.	740	195	22.5	251.4	16.7	32.0	169.1	611.6	1 184.7	1 793.7	36.7	.11	100	100	19 596.9	
1976 ASM....	(NA)	(NA)	21.8	216.5	16.3	31.9	149.8	493.9	1 126.7	1 608.5	48.8	.12	97	96	18 753.0	
1975 ASM....	(NA)	(NA)	21.6	189.4	16.0	29.0	129.0	421.1	1 077.8	1 494.4	36.5	.12	96	94	18 302.2	
1974 ASM....	(NA)	(NA)	20.9	177.2	15.6	29.7	119.5	385.3	1 010.0	1 389.0	30.7	.11	93	102	19 844.8	
1973 ASM....	(NA)	(NA)	20.0	159.2	14.9	28.4	106.4	419.8	873.3	1 274.9	32.3	.10	89	102	19 897.9	
1972 CENSUS.	606	171	17.4	134.5	12.9	25.1	89.4	284.5	658.2	936.6	20.1	.09	77	98	19 028.7	
1971 ASM....	(NA)	(NA)	16.1	118.8	11.3	22.5	78.4	226.2	516.8	741.3	13.5	.09	72	94	18 363.1	
1970 ASM....	(NA)	(NA)	17.2	120.7	12.1	23.8	80.1	230.2	550.3	780.0	12.3	.09	77	99	19 217.2	
1969 ASM....	(NA)	(NA)	16.6	107.2	12.2	23.9	72.1	213.5	540.6	751.9	6.6	.08	74	103	20 035.5	
1968 ASM....	(NA)	(NA)	16.6	101.5	12.3	24.1	69.2	193.9	523.3	714.6	10.7	.09	74	100	19 527.6	
1967 CENSUS.	604	137	15.5	92.5	11.4	22.4	61.7	171.3	494.5	663.3	8.2	.08	69	99	19 323.2	
1966 ASM....	(NA)	(NA)	14.1	81.0	10.3	21.4	55.5	166.3	493.0	653.1	7.7	.07	63	98	19 024.5	
1965 ASM....	(NA)	(NA)	14.1	76.2	10.4	21.1	52.2	154.2	436.0	586.5	10.9	.08	63	92	18 010.2	
1964 ASM....	(NA)	(NA)	13.7	73.6	10.2	21.2	50.2	140.8	431.0	571.3	9.8	.08	61	89	17 268.5	
1963 CENSUS.	586	115	13.2	70.0	9.6	19.9	48.0	140.0	(NA)	(NA)	7.3	.08	59	87	16 958.4	

(NA) Not available.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
SOUTH DAKOTA									
1977 CENSUS.....	11 188	74	1 920	5.28	66	80	27 216	41	19.09
1976 ASM.....	9 931	75	1 957	4.70	70	84	22 656	44	15.48
1975 ASM.....	8 769	74	1 813	4.45	72	85	19 495	45	14.52
1974 ASM.....	8 478	75	1 904	4.02	78	92	18 435	46	12.97
1973 ASM.....	7 960	74	1 906	3.75	68	81	20 990	38	14.78
1972 CENSUS.....	7 730	74	1 946	3.56	70	85	16 351	47	11.33
1971 ASM.....	7 379	70	1 991	3.48	70	86	14 050	53	10.05
1970 ASM.....	7 017	70	1 967	3.37	71	86	13 384	52	9.67
1969 ASM.....	6 458	73	1 959	3.02	72	86	12 861	50	8.93
1968 ASM.....	6 114	74	1 959	2.87	73	87	11 681	52	8.05
1967 CENSUS.....	5 968	74	1 965	2.75	75	88	11 052	54	7.65
1966 ASM.....	5 745	73	2 078	2.59	75	88	11 794	49	7.77
1965 ASM.....	5 404	74	2 029	2.47	74	87	10 936	49	7.31
1964 ASM.....	5 372	74	2 078	2.37	75	88	10 277	52	6.64
1963 CENSUS.....	5 303	73	2 073	2.41	(NA)	(NA)	10 606	50	7.04

Note: For qualifications to data, see footnotes on table 2a.

(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹ -----	number ----	740	806
With 1 to 19 employees -----	do -----	545	455
With 20 to 99 employees -----	do -----	143	112
With 100 employees or more -----	do -----	52	39
All employees, average for year ¹ -----	1,000 -----	22.5	17.4
Payroll for year, all employees ¹ -----	mil. dollars --	251.4	134.5
Production workers:			
Average for year -----	1,000 -----	16.7	12.9
March -----	do -----	16.0	12.4
May -----	do -----	16.5	12.9
August -----	do -----	17.2	13.2
November -----	do -----	16.9	13.3
Hours -----	millions ----	32.0	25.1
January to March -----	do -----	7.9	6.0
April to June -----	do -----	7.8	6.3
July to September -----	do -----	8.2	6.4
October to December -----	do -----	8.1	6.4
Wages -----	mil. dollars --	169.1	89.4
Cost of materials, etc. ² -----	do -----	1 184.7	658.2
Materials, parts, containers, etc., consumed -----	do -----	1 100.1	623.4
Resales -----	do -----	58.5	22.4
Fuels consumed -----	do -----	12.5	3.6
Purchased electric energy -----	do -----	8.7	3.3
Contract work -----	do -----	5.0	5.7
Value of shipments, including resales ² -----	do -----	1 793.7	936.6
Value of resales -----	do -----	66.8	24.2
Value added by manufacture -----	do -----	611.6	284.5
Manufacturers' inventories:			
Beginning of year -----	do -----	136.2	50.3
Finished products -----	do -----	50.2	20.7
Work in process -----	do -----	27.7	9.8
Materials, supplies, fuel, etc. -----	do -----	58.3	19.8
End of year -----	do -----	149.0	59.8
Finished products -----	do -----	47.9	23.7
Work in process -----	do -----	33.6	12.2
Materials, supplies, fuel, etc. -----	do -----	67.5	23.9
Capital expenditures for plant and equipment -----	do -----	40.2	21.3
New capital expenditures -----	do -----	36.7	20.1
New buildings and other structures -----	do -----	10.5	6.3
New machinery and equipment -----	do -----	26.2	13.8
Used capital expenditures -----	do -----	3.5	1.2

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Including central administrative offices and auxiliaries (for definition, see appendix B).

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	6.9	11
Beginning of year.....	343.4	3	Buildings and other structures.....	2.3	13
New capital expenditures.....	32.1	10	Machinery and equipment.....	4.6	14
Used capital expenditures.....	(3.1)	30			
Retirements.....	8.2	6	Depreciation charges during 1977:		
End of year.....	370.5	3	Total.....	25.8	3
Buildings and other structures:			Buildings and other structures.....	5.4	8
Beginning of year.....	116.4	5	Machinery and equipment.....	20.4	3
New capital expenditures.....	(6.5)	20			
Used capital expenditures.....	.7	6	Supplemental labor costs:		
Retirements.....	(1.3)	20	Total.....	42.7	2
End of year.....	122.3	4	Legal costs.....	18.2	2
Machinery and equipment:			Voluntary costs.....	24.5	2
Beginning of year.....	227.1	3			
New capital expenditures.....	25.7	10	Purchased services:		
Automobiles, trucks, etc., for highway use...	5.9	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	1.9	(NA)	Buildings and other structures.....	(1.0)	33
All other.....	14.8	(NA)	Response coverage ratio (percent).....	48	(X)
New machinery and equipment, n.s.k.....	3.1	(NA)	Machinery.....	(5.0)	26
Used capital expenditures.....	(2.4)	39	Response coverage ratio (percent).....	54	(X)
Retirements.....	6.9	5	Cost of purchased communication services.....	(2.4)	32
End of year.....	248.2	3	Response coverage ratio (percent).....	53	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977												1972	
	E1	All establishments ²		All employees ²		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
South Dakota -----	-	740	195	22.5	251.4	16.7	32.0	169.1	611.6	1 184.7	1 793.7	36.7	17.4	284.5
STANDARD METROPOLITAN STATISTICAL AREAS														
Sioux Falls -----	-	116	46	7.6	100.5	5.2	10.1	67.4	203.1	552.4	754.5	7.7	6.9	115.2
COUNTIES														
Aurora -----	E0	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Beadle -----	-	34	12	0.9	12.7	0.7	1.4	9.6	29.4	140.5	169.1	1.3	0.9	16.6
Bennett -----	-	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Bon Homme -----	-	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Brookings -----	-	20	6	0.8	9.7	0.6	1.2	5.9	45.9	33.6	79.0	2.5	0.5	18.2
Brown -----	-	39	12	1.5	16.3	1.1	2.0	10.1	57.7	23.7	81.3	5.3	1.4	17.5
Brule -----	E8	6	-	(Z)	0.3	(Z)	(Z)	0.1	0.8	1.2	2.0	0.1	(Z)	(NA)
Buffalo -----	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Butte -----	E2	13	2	0.1	1.2	0.1	0.2	0.9	3.5	2.5	5.9	(D)	(Z)	(NA)
Campbell -----	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Charles Mix -----	-	10	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Clark -----	-	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Clay -----	-	14	4	0.2	2.3	0.2	0.3	1.4	5.5	8.1	13.3	(D)	0.2	2.8
Codington -----	-	35	11	1.2	11.2	0.9	1.7	7.8	34.7	33.4	68.0	1.0	0.8	12.6
Corson -----	-	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Custer -----	E1	14	3	0.2	1.9	0.1	0.3	1.5	4.5	1.7	6.1	0.5	0.1	2.6
Daivison -----	-	25	9	0.7	7.1	0.5	0.9	5.0	29.7	39.3	68.8	1.3	0.5	14.7
Day -----	-	9	3	0.3	1.4	0.2	0.3	0.9	2.7	4.7	7.6	(D)	(Z)	(NA)
Deuel -----	E4	6	-	(Z)	0.2	(Z)	(Z)	0.1	0.5	0.8	1.3	0.1	(Z)	(NA)
Dewey -----	E0	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Douglas -----	E0	6	-	(Z)	0.1	(Z)	(Z)	0.1	0.3	0.6	0.9	(Z)	(Z)	(Z)
Edmunds -----	E8	5	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Fall River -----	E3	8	1	0.1	0.5	(Z)	0.1	0.4	1.0	0.4	1.5	(Z)	0.1	0.8
Faulk -----	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Grant -----	-	11	6	0.5	4.9	0.4	0.8	3.9	10.0	43.5	53.7	0.9	0.4	5.2
Gregory -----	E1	11	-	(Z)	0.3	(Z)	0.1	0.2	0.6	2.8	3.4	(Z)	(D)	(D)
Haakon -----	-	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hamlin -----	-	7	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hand -----	E9	6	-	(Z)	0.3	(Z)	(Z)	0.2	1.0	0.8	1.8	(Z)	(NA)	(NA)
Hanson -----	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Harding -----	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Hughes -----	-	9	2	0.1	0.8	0.1	0.1	0.5	1.5	1.5	3.0	(Z)	0.1	1.4
Hutchinson -----	-	13	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hyde -----	E0	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jackson -----	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jerauld -----	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kingsbury -----	E4	11	2	0.1	0.7	0.1	0.1	0.4	1.6	2.5	4.1	0.1	0.1	0.9
Lake -----	-	11	7	0.5	4.1	0.4	0.7	3.1	12.6	16.4	28.9	0.2	0.4	4.7
Lawrence -----	-	27	5	0.5	4.7	0.4	0.8	3.9	7.5	10.6	17.0	(D)	0.3	5.1
Lincoln -----	-	16	6	0.6	5.2	0.5	1.0	3.8	9.1	11.4	21.3	1.2	0.7	5.3
Lyman -----	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
McCook -----	E1	11	1	0.2	1.5	0.1	0.2	1.0	2.7	3.4	6.4	(D)	0.1	2.0
McPherson -----	E3	7	-	(Z)	0.2	(Z)	(Z)	0.1	0.6	1.4	1.9	(Z)	(D)	(D)
Marshall -----	E1	8	3	0.2	1.2	0.1	0.2	0.9	3.6	4.7	8.4	(D)	(Z)	(NA)
Meade -----	-	13	4	0.3	2.0	0.2	0.3	1.7	3.5	2.0	5.5	(D)	0.1	1.7
Mellette -----	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Miner -----	E2	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Minnehaha -----	-	116	46	7.6	100.5	5.2	10.1	67.4	203.1	552.4	754.5	7.7	6.9	115.2
Moody -----	E5	6	-	(Z)	0.2	(Z)	(Z)	0.1	0.4	0.5	0.9	(Z)	(D)	(D)
Pennington -----	-	76	19	2.7	29.6	1.8	3.6	17.1	71.2	107.8	179.0	4.4	1.5	28.3
Perkins -----	-	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Potter -----	-	5	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Roberts -----	-	8	1	0.1	0.4	0.1	0.1	0.3	0.6	0.5	1.1	(Z)	(Z)	(NA)
Sanborn -----	-	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Shannon -----	E1	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Spink -----	E2	4	-	(Z)	0.3	(Z)	(Z)	0.1	0.8	1.8	2.5	(D)	0.1	0.8
Stanley -----	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Sully -----	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Todd -----	E2	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Tripp -----	-	5	-	(Z)	0.2	(Z)	(Z)	0.1	0.4	0.5	1.0	(Z)	(Z)	(NA)
Turner -----	E3	9	-	(Z)	0.3	(Z)	(Z)	0.2	1.4	1.5	2.9	(Z)	(Z)	(NA)
Union -----	-	19	6	0.8	6.6	0.7	1.3	4.7	11.8	17.6	29.2	0.4	0.2	2.8
Walworth -----	-	16	1	0.1	0.8	0.1	0.1	0.5	1.6	1.7	3.3	(D)	0.1	1.3
Yankton -----	-	21	9	1.3	12.5	1.0	2.1	8.6	24.0	38.9	63.2	1.2	1.0	10.7
CITIES														
Aberdeen -----	-	31	11	1.4	15.5	1.0	1.9	9.5	56.6	22.0	78.6	5.2	1.3	16.6
Brookings -----	-	14	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Huron -----	-	31	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Madison -----	-	11	7	0.5	4.1	0.4	0.7	3.1	12.6	16.4	28.9	0.2	(NA)	(NA)
Mitchell -----	-	21	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	14.3
Rapid City -----	-	63	17	2.5	28.0	1.7	3.3	16.1	67.4	103.0	170.5	4.2	1.3	24.9
Sioux Falls -----	-	94	39	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.6	107.6
Watertown -----	-	32	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Yankton -----	-	19	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Including central administrative offices and auxiliaries (for definition, see appendix B).
³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	All industries -----	-	740	195	22.5	251.4	16.7	32.0	169.1	611.6	1 184.7	1 793.7	36.7	17.4	284.5
20	Food and kindred products -----	-	122	54	8.2	106.6	5.9	11.0	74.3	225.5	853.7	1 078.6	9.4	7.3	127.0
201	Meat products -----	-	22	14	4.9	72.4	3.9	7.1	56.5	138.7	604.6	742.2	3.7	4.5	77.2
2011	Meat packing plants -----	-	13	8	4.4	70.1	3.5	6.5	54.7	128.5	588.5	716.3	3.5	FF	(D)
2017	Poultry and egg processing --	-	3	3	0.3	1.1	0.3	0.3	0.9	3.5	10.3	13.4	0.1	(NA)	(NA)
202	Dairy products -----	-	35	14	1.3	13.1	0.7	1.4	6.5	30.7	152.6	183.7	3.5	1.2	23.7
2022	Cheese, natural and processed -----	-	16	4	0.4	3.6	0.4	0.7	3.1	9.0	63.5	72.9	1.4	BB	(D)
2023	Condensed and evaporated milk -----	-	5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2026	Fluid milk -----	-	11	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	7.8
204	Grain mill products -----	-	27	8	0.5	6.0	0.3	0.5	2.9	17.4	59.8	77.5	1.0	0.5	9.9
2048	Prepared feeds, n.e.c. -----	-	23	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
205	Bakery products -----	-	15	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2051	Bread, cake, and related products -----	-	14	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2052	Cookies and crackers -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
208	Beverages -----	E1	9	8	0.4	3.6	0.2	0.3	1.8	8.1	8.9	17.0	(D)	0.3	3.8
2086	Bottled and canned soft drinks -----	E1	8	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
22	Textile mill products --	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
229	Miscellaneous textile goods ---	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2297	Nonwoven fabrics -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
23	Apparel and other textile products -----	-	22	8	1.0	5.3	0.9	1.7	4.9	7.8	11.6	18.7	0.7	CC	(D)
232	Men's and boys' furnishings ---	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2329	Men's and boys' clothing, n.e.c. -----	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
233	Women's and misses' outerwear -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2337	Women's and misses' suits and coats -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	E1	17	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2392	House furnishings, n.e.c. -----	-	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
24	Lumber and wood products -----	-	81	22	2.0	19.1	1.6	3.1	14.1	40.5	61.1	100.6	(D)	1.5	23.6
242	Sawmills and planing mills ---	-	21	7	0.7	6.7	0.6	1.1	5.6	11.3	12.3	22.2	(D)	0.3	7.1
2421	Sawmills and planing mills, general -----	-	21	7	0.7	6.7	0.6	1.1	5.6	11.3	12.3	22.2	(D)	0.3	7.1
243	Millwork, plywood, and structural members -----	-	17	4	0.4	3.8	0.3	0.6	2.8	11.6	22.0	33.9	(D)	BB	(D)
2431	Millwork -----	-	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
245	Wood buildings and mobile homes -----	-	11	8	0.7	6.6	0.5	1.1	4.0	12.9	23.2	36.1	(D)	CC	(D)
2451	Mobile homes -----	-	5	4	0.3	3.1	0.3	0.6	2.2	5.8	12.9	18.7	(D)	BB	(D)
2452	Prefabricated wood buildings -----	E1	6	4	0.3	3.5	0.2	0.4	1.7	7.1	10.3	17.4	(D)	AA	(D)
27	Printing and publishing -----	E1	183	25	1.7	18.1	1.0	1.7	9.6	37.1	16.7	53.9	2.1	1.6	22.9
2711	Newspapers -----	E1	112	15	1.0	10.2	0.5	1.0	4.9	24.9	7.0	31.9	0.5	1.1	16.0
275	Commercial printing -----	-	55	8	0.5	5.8	0.3	0.6	3.7	9.3	7.5	16.7	(D)	0.4	5.7
2751	Commercial printing, letterpress -----	-	32	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.0
2752	Commercial printing, lithographic -----	-	21	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
30	Rubber and miscellaneous plastics products -----	E1	18	7	0.6	5.4	0.5	1.0	4.7	13.4	10.8	24.2	1.1	0.4	5.7
3069	Fabricated rubber products, n.e.c. -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3079	Miscellaneous plastics products -----	E3	17	6	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
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[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
31	Leather and leather products -----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	88	15	1.4	16.8	1.1	2.3	11.9	53.1	37.1	91.3	3.6	0.8	12.2
3241	Cement, hydraulic -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
327	Concrete, gypsum, and plaster products -----	E1	69	9	0.7	8.2	0.5	1.0	5.6	20.3	22.6	43.2	1.9	CC	(D)
3272	Concrete products, n.e.c. ---	-	16	4	0.3	3.4	0.2	0.4	2.2	8.1	5.0	13.4	0.4	BB	(D)
3273	Ready-mixed concrete -----	E2	49	4	0.3	4.3	0.3	0.6	3.2	11.1	16.5	27.5	1.5	0.2	4.8
3281	Cut stone and stone products -	-	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
329	Miscellaneous nonmetallic mineral products -----	E1	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3293	Gaskets, packing, and sealing devices -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
34	Fabricated metal products -----	-	35	10	1.0	11.8	0.8	1.5	7.2	30.7	39.3	69.2	0.9	CC	(D)
342	Cutlery, hand tools, and hardware -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3429	Hardware, n.e.c. -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
344	Fabricated structural metal products -----	-	21	8	0.7	8.7	0.5	1.0	5.0	24.7	33.4	57.5	0.4	CC	(D)
3441	Fabricated structural metal --	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3443	Fabricated plate work (boiler shops) -----	-	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3444	Sheet metal work -----	-	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
35	Machinery, except electrical -----	-	75	23	3.0	32.0	2.4	4.6	22.2	70.6	81.6	151.6	3.5	2.2	39.8
352	Farm and garden machinery ---	-	23	8	0.7	7.3	0.6	1.2	5.4	18.7	19.9	39.6	1.3	0.4	7.0
3523	Farm machinery and equipment -----	-	23	8	0.7	7.3	0.6	1.2	5.4	18.7	19.9	39.6	1.3	0.4	7.0
353	Construction and related machinery -----	-	12	6	0.6	7.3	0.4	1.0	5.1	16.3	13.0	29.1	0.3	0.3	6.8
3531	Construction machinery -----	-	5	3	0.2	2.4	0.1	0.3	1.5	6.3	5.2	11.4	0.1	(NA)	(NA)
3535	Conveyors and conveying equipment -----	-	3	3	0.4	4.7	0.3	0.6	3.6	9.5	7.5	16.9	(D)	AA	(D)
354	Metalworking machinery -----	-	8	4	0.3	4.0	0.2	0.5	2.7	8.8	3.3	12.0	(D)	AA	(D)
3541	Machine tools, metal cutting types -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
356	General industrial machinery ---	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3566	Speed changers, drives, and gears -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
357	Office and computing machines -----	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3573	Electronic computing equipment -----	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
358	Refrigeration and service machinery -----	-	6	3	0.2	2.2	0.2	0.4	1.4	4.5	6.0	10.3	(D)	(NA)	(NA)
36	Electric and electronic equipment -	-	9	5	0.8	5.7	0.6	1.2	3.4	11.3	5.1	16.5	0.3	CC	(D)
367	Electronic components and accessories -----	-	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3677	Electronic coils and transformers -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3679	Electronic components, n.e.c. -----	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
37	Transportation equipment -----	-	28	6	0.5	5.7	0.4	0.8	3.8	11.6	18.1	29.5	(D)	BB	(D)
371	Motor vehicles and equipment -	-	15	4	0.3	4.1	0.3	0.5	2.5	9.0	13.5	22.5	(D)	AA	(D)
3715	Truck trailers -----	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
38	Instruments and related products -----	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
382	Measuring and controlling devices -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3825	Instruments to measure electricity -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
384	Medical instruments and supplies -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3842	Surgical appliances and supplies -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
39	Miscellaneous manufacturing industries -----	-	31	4	0.3	2.5	0.3	0.8	1.8	7.3	6.9	14.3	(D)	0.2	1.7
391	Jewelry, silverware, and plated ware -----	-	5	3	0.2	1.4	0.2	0.4	1.1	4.9	4.5	9.5	(D)	(NA)	(NA)
3911	Jewelry, precious metal -----	-	5	3	0.2	1.4	0.2	0.4	1.1	4.9	4.5	9.5	(D)	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SMSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SMSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Sioux Falls SMSA -----	-	116	46	7.6	100.5	5.2	10.1	67.4	203.1	552.4	754.5	7.7	6.9	115.2
20	Food and kindred products --	-	20	14	4.6	68.7	3.1	6.0	48.0	136.4	469.4	605.8	3.1	4.5	77.5
24	Lumber and wood products --	-	10	3	0.3	3.0	0.2	0.5	2.3	10.2	20.4	30.9	(D)	(NA)	(NA)
27	Printing and publishing ----	-	23	7	0.5	6.4	0.4	0.7	4.2	13.8	7.2	20.9	1.4	0.4	7.8
275	Commercial printing -----	-	13	4	0.3	3.6	0.2	0.3	2.2	5.7	4.7	10.4	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	10	5	0.6	7.4	0.5	0.9	4.5	16.5	22.2	38.1	0.5	0.5	8.1

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.

(Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Valu added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
20	Beadle County-----	-	34	12	0.9	12.7	0.7	1.4	9.6	29.4	140.5	169.1	1.3	0.9	16.6
	Brookings County-----	-	20	6	0.8	9.7	0.6	1.2	5.9	45.9	33.6	79.0	2.5	0.5	18.2
	Brown County-----	-	39	12	1.5	16.3	1.1	2.0	10.1	57.7	23.7	81.3	5.3	1.4	17.5
	Codington County-----	-	35	11	1.2	11.2	0.9	1.7	7.8	34.7	33.4	68.0	1.0	0.8	12.6
	Davison County-----	-	25	9	0.7	7.1	0.5	0.9	5.0	29.7	39.3	68.8	1.3	0.5	14.7
	Grant County-----	-	11	6	0.5	4.9	0.4	0.8	3.9	10.0	43.5	53.7	0.9	0.4	5.2
	Lake County-----	-	11	7	0.5	4.1	0.4	0.7	3.1	12.6	16.4	28.9	0.2	0.4	4.7
	Lawrence County-----	-	27	5	0.5	4.7	0.4	0.8	3.9	7.5	10.6	17.0	(D)	0.3	5.1
	Lincoln County-----	-	16	6	0.6	5.2	0.5	1.0	3.8	9.1	11.4	21.3	1.2	0.7	5.3
	Minnehaha County (Coextensive with Sioux Falls, S. Dak., SMSA; see table 6.)														
	Pennington County-----	-	76	19	2.7	29.6	1.8	3.6	17.1	71.2	107.8	179.0	4.4	1.5	28.3
Food and kindred products--	-	11	6	0.6	7.6	0.3	0.6	4.1	15.2	44.9	60.1	(D)	0.5	7.1	
Union County-----	-	19	6	0.8	6.6	0.7	1.3	4.7	11.8	17.6	29.2	0.4	0.2	2.8	
Yankton County-----	-	21	9	1.3	12.5	1.0	2.1	8.6	24.0	38.9	63.2	1.2	1.0	10.7	

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972	
		All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
		E ¹	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Aberdeen -----	-	31 11	1.4	15.5	1.0	1.9	9.5	56.6	22.0	78.6	5.2	1.3	16.6
	Madison -----	-	11 7	0.5	4.1	0.4	0.7	3.1	12.6	18.4	28.9	0.2	(NA)	(NA)
	Rapid City -----	-	63 17	2.5	28.0	1.7	3.3	16.1	67.4	103.0	170.5	4.2	1.3	24.9

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
SOUTH DAKOTA	740	122	-	3	22	81	6	5	183	15	3	18	3	88	1	35	75	9	26	7	31	7
1 TO 4 EMPLOYEES	387	38	-	1	7	40	5	4	126	9	-	7	2	50	-	15	42	1	15	3	18	4
5 TO 9 EMPLOYEES	88	13	-	-	4	13	-	-	19	2	2	3	-	10	-	4	8	1	4	-	5	-
10 TO 19 EMPLOYEES	70	17	-	3	16	1	1	-	13	1	1	1	-	13	-	6	2	2	1	-	4	-
20 TO 49 EMPLOYEES	85	19	-	1	3	11	-	-	16	3	1	5	-	9	-	3	5	1	1	2	2	-
50 TO 99 EMPLOYEES	58	21	-	-	1	6	-	-	5	-	-	-	-	3	1	4	7	1	4	1	1	-
100 TO 249 EMPLOYEES	39	9	-	1	3	5	-	-	4	-	-	-	1	3	-	4	7	1	1	1	1	-
250 TO 499 EMPLOYEES	10	4	-	1	1	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-
500 TO 999 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2500 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AURORA COUNTY	3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
BEADLE COUNTY	34	9	-	-	2	-	-	-	8	2	2	-	-	2	-	2	4	-	2	-	1	-
1 TO 19 EMPLOYEES	22	3	-	-	1	-	-	-	7	2	1	-	-	1	-	1	3	-	2	-	1	-
20 TO 99 EMPLOYEES	11	5	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BENNETT COUNTY	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
BON HOMME COUNTY	6	1	-	-	-	-	-	-	2	-	-	-	-	2	-	-	-	-	-	1	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROOKINGS COUNTY	20	1	-	-	-	-	-	-	6	-	-	1	-	5	-	1	-	1	2	2	1	-
1 TO 19 EMPLOYEES	14	1	-	-	-	-	-	-	5	-	-	1	-	5	-	1	-	1	2	1	1	-
20 TO 99 EMPLOYEES	5	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROWN COUNTY	39	6	-	1	1	1	1	1	8	2	1	1	-	3	-	4	5	-	3	-	1	1
1 TO 19 EMPLOYEES	27	3	-	1	1	1	1	1	5	2	1	1	-	3	-	4	2	-	3	-	1	1
20 TO 99 EMPLOYEES	8	3	-	-	-	1	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BRULE COUNTY	6	2	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	6	2	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
BUFFALO COUNTY	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUTTE COUNTY	13	1	-	-	3	-	-	-	1	-	-	-	-	5	-	-	2	-	1	-	-	-
1 TO 19 EMPLOYEES	11	1	-	-	3	-	-	-	1	-	-	-	-	3	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
CAMPBELL COUNTY	5	1	-	-	-	-	-	-	3	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHARLES MIX COUNTY	10	3	-	1	-	-	-	-	4	-	-	-	-	2	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	9	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLARK COUNTY	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLAY COUNTY	14	3	-	-	-	-	-	-	5	-	-	-	-	1	-	1	2	1	-	-	1	-
1 TO 19 EMPLOYEES	10	2	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CODINGTON COUNTY	35	7	-	-	1	4	-	-	5	-	-	3	-	1	-	2	9	-	3	-	3	-
1 TO 19 EMPLOYEES	24	2	-	1	3	-	-	-	4	-	-	2	-	-	-	1	3	-	2	-	3	-
20 TO 99 EMPLOYEES	6	4	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

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State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO ²	
CORSON COUNTY	2	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	1	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CUSTER COUNTY	14	-	-	-	-	12	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	11	-	-	-	-	9	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DAVISON COUNTY	25	9	-	-	1	1	-	-	4	-	-	-	-	3	-	-	3	1	1	1	1	-	
1 TO 19 EMPLOYEES	16	5	-	-	1	1	-	-	2	-	-	-	-	3	-	-	2	1	-	-	1	-	
20 TO 99 EMPLOYEES	8	3	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	1	1	-	-	
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DAY COUNTY	9	2	-	-	1	-	-	-	1	-	-	2	-	2	1	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	6	2	-	-	-	-	-	-	1	-	-	1	-	2	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DEUEL COUNTY	6	1	-	-	-	-	-	-	2	-	-	-	-	2	-	-	-	-	-	-	1	-	
1 TO 19 EMPLOYEES	6	1	-	-	-	-	-	-	2	-	-	-	-	2	-	-	-	-	-	-	-	-	
DEWEY COUNTY	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	
1 TO 19 EMPLOYEES	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	
DOUGLAS COUNTY	6	1	-	-	-	-	-	-	2	-	-	-	-	2	-	1	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	6	1	-	-	-	-	-	-	2	-	-	-	-	2	-	-	-	-	-	-	-	-	
EDMUNDS COUNTY	5	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	1	-	
1 TO 19 EMPLOYEES	5	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	1	-	
FALL RIVER COUNTY	8	-	-	-	-	1	-	-	2	1	-	-	1	-	-	-	2	-	-	-	1	-	
1 TO 19 EMPLOYEES	7	-	-	-	-	1	-	-	2	1	-	-	1	-	-	-	-	-	-	-	1	-	
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FAULK COUNTY	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	
GRANT COUNTY	11	3	-	-	-	-	-	-	3	-	-	-	-	4	-	-	1	-	-	-	-	-	
1 TO 19 EMPLOYEES	5	2	-	-	-	-	-	-	2	-	-	-	-	2	-	-	1	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GREGORY COUNTY	11	1	-	-	-	1	-	-	4	-	-	-	-	3	-	-	-	-	-	-	1	1	
1 TO 19 EMPLOYEES	11	1	-	-	-	1	-	-	4	-	-	-	-	3	-	-	-	-	-	-	1	1	
HAAKON COUNTY	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
HAMLIN COUNTY	7	2	-	-	-	-	-	-	2	-	-	-	-	-	-	1	1	-	1	-	-	-	
1 TO 19 EMPLOYEES	6	1	-	-	-	-	-	-	2	-	-	-	-	-	-	1	1	-	1	-	-	-	
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HAND COUNTY	6	1	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	2	-	-	-	
1 TO 19 EMPLOYEES	6	1	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	2	-	-	-	
HANSON COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
HARDING COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
HUGHES COUNTY	9	1	-	-	-	-	-	-	5	-	-	-	-	1	-	1	1	-	-	-	-	-	
1 TO 19 EMPLOYEES	7	1	-	-	-	-	-	-	3	-	-	-	-	1	-	1	1	-	-	-	-	-	
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	
HUTCHINSON COUNTY	13	5	-	-	-	-	-	-	5	-	-	-	-	-	-	-	3	-	-	-	-	-	
1 TO 19 EMPLOYEES	12	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HYDE COUNTY	3	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	3	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	

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State, county, and employee size class ¹	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
JACKSON COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
JERAULD COUNTY	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
KINGSBURY COUNTY	11	2	-	-	-	1	-	-	5	-	-	-	-	1	-	1	-	-	-	-	1	-
1 TO 19 EMPLOYEES	9	1	-	-	-	-	-	-	5	-	-	-	-	1	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LAKE COUNTY	11	2	-	-	-	2	-	-	1	1	-	-	-	1	-	2	2	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	1	-	-	-	-	1	-	2	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	1	-	-	-	2	-	-	1	1	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
LAWRENCE COUNTY	27	1	-	-	-	16	-	-	4	-	-	-	-	2	-	-	1	-	-	-	3	-
1 TO 19 EMPLOYEES	22	1	-	-	-	13	-	-	3	-	-	-	-	2	-	-	1	-	-	-	2	-
20 TO 99 EMPLOYEES	4	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LINCOLN COUNTY	16	1	-	-	1	2	-	-	2	-	-	-	-	2	-	1	7	-	-	-	-	-
1 TO 19 EMPLOYEES	10	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	4	-	-	-	-	-
20 TO 99 EMPLOYEES	4	1	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
LYMAN COUNTY	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
MC COOK COUNTY	11	1	-	-	2	-	-	-	3	-	-	-	-	3	-	-	1	-	-	-	1	-
1 TO 19 EMPLOYEES	10	1	-	-	2	-	-	-	3	-	-	-	-	3	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
MC PHERSON COUNTY	7	2	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	2	-
1 TO 19 EMPLOYEES	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
MARSHALL COUNTY	8	1	-	-	3	-	-	-	2	-	-	-	-	1	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEADE COUNTY	13	1	-	-	-	5	-	-	3	-	-	-	-	3	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	9	1	-	-	-	3	-	-	1	-	-	-	-	3	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MELLETTE COUNTY	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MINER COUNTY	3	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MINNEHAHA COUNTY	116	20	-	-	5	10	3	4	23	6	-	4	-	8	-	10	8	-	3	3	7	2
1 TO 19 EMPLOYEES	70	6	-	-	4	7	3	3	16	5	-	1	-	5	-	5	5	-	2	2	6	2
20 TO 99 EMPLOYEES	32	10	-	-	2	2	1	1	2	1	-	3	-	2	-	2	2	-	1	1	1	2
100 TO 249 EMPLOYEES	10	1	-	-	-	-	-	-	-	-	-	-	-	1	-	3	1	-	-	-	-	-
250 EMPLOYEES AND OVER	4	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOODY COUNTY	6	-	-	-	-	-	-	-	1	2	-	-	-	2	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PENNINGTON COUNTY	76	11	-	-	2	14	-	-	18	1	-	4	1	7	-	3	5	2	2	-	5	1
1 TO 19 EMPLOYEES	57	5	-	2	11	-	-	-	17	1	-	4	1	3	-	2	4	1	2	-	4	1
20 TO 99 EMPLOYEES	12	4	-	-	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	6	2	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
PERKINS COUNTY	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POTTER COUNTY	5	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-

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		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
ROBERTS COUNTY	8	-	-	-	2	1	-	-	2	-	-	-	-	1	-	1	1	-	-	-	-	-	
1 TO 19 EMPLOYEES	7	-	-	-	1	1	-	-	2	-	-	-	-	1	-	1	1	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SANBORN COUNTY	2	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SHANNON COUNTY	4	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	1	-	-	-	-	
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	
SPINK COUNTY	4	1	-	-	-	-	1	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	4	1	-	-	-	-	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
STANLEY COUNTY	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
SULLY COUNTY	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	
TODD COUNTY	6	1	-	1	1	1	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	
1 TO 19 EMPLOYEES	5	1	-	1	1	1	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TRIPP COUNTY	5	2	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	5	2	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	
TURNER COUNTY	9	2	-	-	-	-	-	-	4	-	-	-	-	1	-	1	1	-	-	-	-	-	
1 TO 19 EMPLOYEES	9	2	-	-	-	-	-	-	4	-	-	-	-	1	-	1	1	-	-	-	-	-	
UNION COUNTY	19	1	-	-	1	1	1	-	2	-	-	2	-	-	-	1	7	1	2	-	-	-	
1 TO 19 EMPLOYEES	13	-	-	-	-	1	1	-	2	-	-	2	-	-	-	1	5	1	1	-	-	-	
20 TO 99 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WALWORTH COUNTY	6	1	-	-	-	-	-	-	3	-	-	-	-	1	-	1	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	5	1	-	-	-	-	-	-	3	-	-	-	-	1	-	1	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
YANKTON COUNTY	21	5	-	-	-	1	-	-	4	-	-	-	-	3	-	1	4	2	1	-	-	-	
1 TO 19 EMPLOYEES	12	3	-	-	-	1	-	-	3	-	-	-	-	3	-	1	1	-	1	-	-	-	
20 TO 99 EMPLOYEES	4	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	1	-	-	-	
100 TO 249 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	
250 EMPLOYEES AND OVER	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

¹Represents zero.

²Only those counties and size classes that include data for manufacturing establishments are shown.

Tennessee

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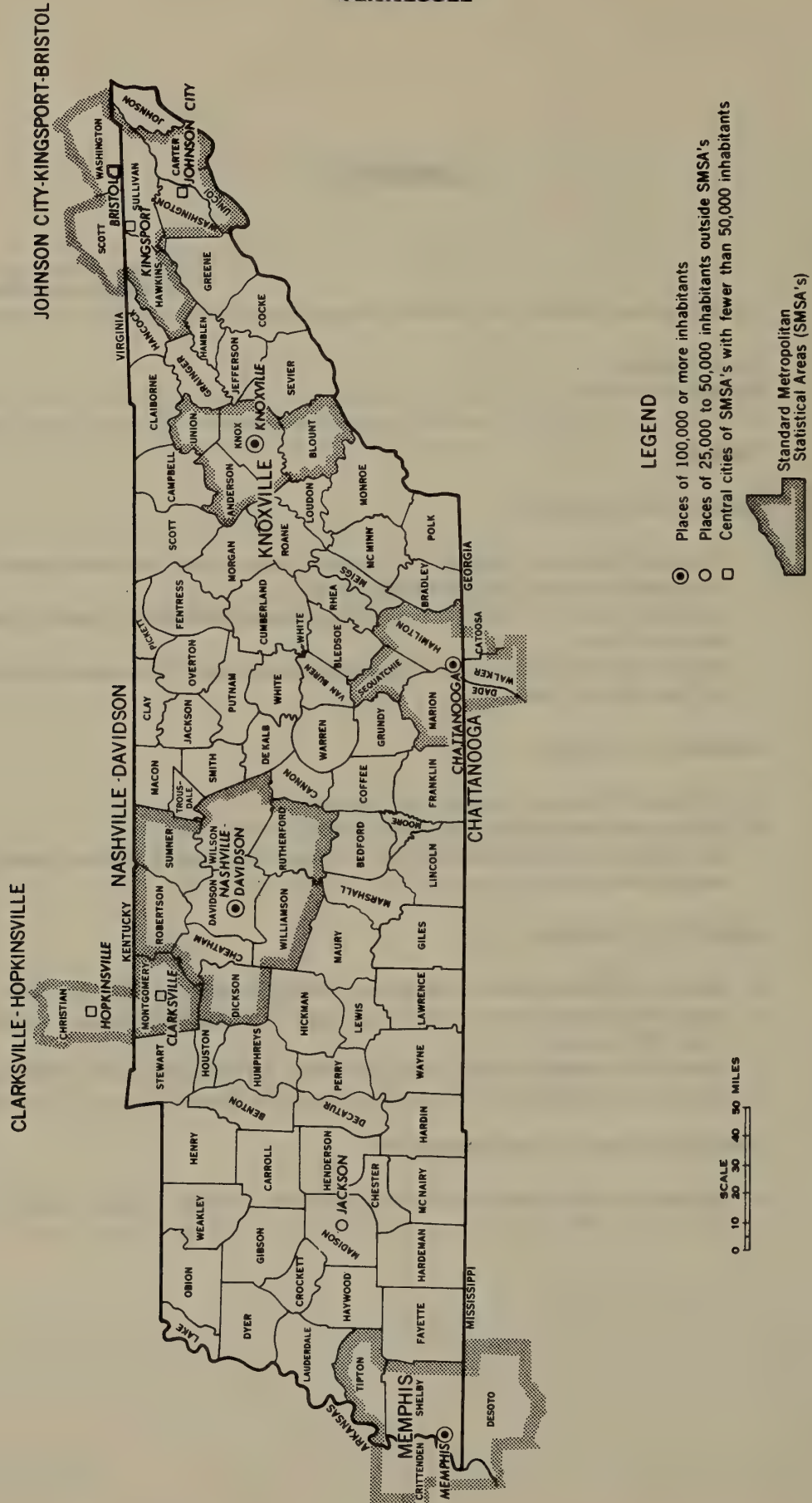
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TENNESSEE



SUMMARY OF FINDINGS

In 1977, 489.8 thousand persons were employed in Tennessee's manufacturing establishments. This figure represented an increase of 4 percent from the 1972 figure of 467.4 thousand workers.

The total value added by manufacture for the State amounted to \$12,663 million in 1977, an increase of approximately 65 percent from the 1972 figure of \$7,662 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were apparel and other textile products, chemicals and allied products, electric and electronic equipment, and food and kindred products. They accounted for approximately 40 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 42 percent of the State's employment.

The most important counties in the State ranked by employment were Shelby, Davidson, Hamilton, and Knox. They accounted for approximately 36 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 37 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 3 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Tennessee:						
1977.....	489.8	5,218.7	481.0	5,098.9	8.8	119.8
1972.....	467.4	3,351.7	459.8	3,276.9	7.6	74.8
1967.....	418.0	2,190.0	412.8	2,145.8	5.2	44.2
1963.....	334.9	1,505.2	330.8	1,479.2	4.1	26.0
STANDARD METROPOLITAN STATISTICAL AREAS						
Chattanooga, Tenn.-Ga.:						
1977.....	53.9	612.9	53.1	600.7	.8	12.2
1972.....	56.8	450.3	56.1	443.7	.7	6.6
1967.....	51.6	308.3	50.7	302.6	.9	5.7
1963.....	38.9	193.8	38.6	191.6	.3	2.3
Clarksville-Hopkinsville, Tenn.-Ky.:						
1977.....	9.4	89.3	8.9	81.8	.5	7.5
1972.....	10.0	64.1	(NA)	(NA)	(NA)	(NA)
Johnson City-Kingsport-Bristol, Tenn.-Va.:						
1977.....	54.5	655.6	54.0	649.5	.5	6.1
1972.....	49.3	400.3	49.3	400.3	-	-
Knoxville:						
1977.....	39.6	475.8	39.4	473.7	.2	2.1
1972.....	40.9	324.6	40.8	323.2	.1	1.4
1967.....	38.9	222.2	38.9	221.9	(Z)	.3
1963.....	34.9	175.9	34.6	175.1	.2	.7
Memphis, Tenn.-Ark.-Miss.:						
1977.....	64.1	780.1	62.1	749.0	2.0	31.1
1972.....	64.2	525.9	62.6	509.5	1.5	16.4
1967.....	57.4	332.8	56.1	321.4	1.3	11.4
1963.....	47.2	241.4	46.2	233.9	1.0	7.5
Nashville-Davidson:						
1977.....	80.5	914.7	76.4	864.3	4.1	50.4
1972.....	72.0	549.4	69.1	522.3	2.9	27.1

- Represents zero. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers							Comparative indexes and U.S. employment			
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	Index of State em- ploy- ment change (1977= 100)	United States	
														Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)
TENNESSEE															
1977 CENSUS.	6 487	2 477	489.8	5 218.7	375.7	720.3	3 481.2	12 663.4	16 318.9	28 752.0	961.1	2.50	100	100	19 596.9
1976 ASM....	(NA)	(NA)	478.7	4 686.3	359.8	694.4	3 039.9	10 723.6	14 336.2	24 755.5	781.3	2.55	98	96	18 753.0
1975 ASM....	(NA)	(NA)	452.1	4 126.6	338.0	646.0	2 653.9	9 289.2	12 432.6	21 768.2	826.1	2.47	92	94	18 302.2
1974 ASM....	(NA)	(NA)	489.5	4 071.8	381.7	739.0	2 759.5	9 563.8	12 476.0	21 608.1	935.4	2.47	100	102	19 844.8
1973 ASM....	(NA)	(NA)	493.3	3 756.3	389.3	761.1	2 581.6	8 772.5	10 335.4	18 918.7	673.5	2.48	101	102	19 897.9
1972 CENSUS.	5 647	2 291	467.4	3 351.7	367.0	725.3	2 295.1	7 662.0	8 635.7	16 129.3	540.0	2.46	95	98	19 028.7
1971 ASM....	(NA)	(NA)	444.2	2 955.3	346.9	679.8	2 006.5	6 728.9	7 409.8	14 078.7	529.7	2.42	91	94	18 363.1
1970 ASM....	(NA)	(NA)	447.9	2 785.5	348.2	682.4	1 886.2	6 297.0	6 858.5	12 982.6	507.7	2.33	91	99	19 217.2
1969 ASM....	(NA)	(NA)	456.3	2 693.4	360.5	706.9	1 857.6	5 982.1	6 740.4	12 599.4	523.8	2.28	93	103	20 035.5
1968 ASM....	(NA)	(NA)	434.1	2 445.4	345.1	682.4	1 696.4	5 542.0	6 328.9	11 771.7	481.3	2.22	89	100	19 527.6
1967 CENSUS.	5 040	2 022	418.0	2 190.0	333.6	654.7	1 512.2	4 921.1	5 848.0	10 700.1	412.4	2.16	85	99	19 323.2
1966 ASM....	(NA)	(NA)	401.1	2 038.6	320.8	643.5	1 408.9	4 627.8	5 519.2	9 975.9	510.7	2.11	82	98	19 024.5
1965 ASM....	(NA)	(NA)	373.4	1 809.2	299.2	599.1	1 257.5	4 139.4	4 841.5	8 878.0	389.7	2.07	76	92	18 010.2
1964 ASM....	(NA)	(NA)	344.9	1 621.9	273.9	550.2	1 122.3	5 577.2	4 322.9	7 871.9	300.2	2.00	70	89	17 268.5
1963 CENSUS.	4 787	1 809	334.3	1 505.2	267.0	530.2	1 040.7	3 577.2	(NA)	(NA)	244.9	1.97	68	87	16 958.4
CHATTANOOGA, TENN.-GA., SMSA															
1977 CENSUS.	671	287	53.9	612.9	41.3	80.3	409.9	1 290.0	2 032.3	3 305.2	89.0	.28	100	100	19 596.9
1976 ASM....	(NA)	(NA)	54.4	575.7	41.9	79.3	394.2	1 193.9	1 892.1	3 072.6	74.0	.29	101	96	18 753.0
1975 ASM....	(NA)	(NA)	51.4	512.6	39.5	74.4	349.2	1 119.9	1 678.0	2 804.1	77.0	.28	95	94	18 302.2
1974 ASM....	(NA)	(NA)	57.5	517.2	44.6	84.0	354.2	1 117.5	1 581.1	2 623.3	86.0	.29	107	102	19 844.8
1973 ASM....	(NA)	(NA)	57.3	481.4	45.3	91.9	337.0	989.2	1 365.5	2 339.8	69.7	.29	106	102	19 897.9
1972 CENSUS.	635	280	56.8	450.3	45.0	91.6	318.2	927.7	1 205.2	2 119.1	64.4	.30	105	98	19 028.7
1971 ASM....	(NA)	(NA)	52.5	386.2	41.3	83.1	268.4	753.8	1 045.4	1 793.4	51.0	.29	97	94	18 363.1
1970 ASM....	(NA)	(NA)	53.4	357.2	41.8	83.0	244.6	676.7	979.9	1 648.5	71.9	.28	99	99	19 217.2
1969 ASM....	(NA)	(NA)	54.7	353.6	43.0	85.8	243.1	741.6	975.4	1 690.5	51.7	.27	102	103	20 035.5
1968 ASM....	(NA)	(NA)	52.6	326.1	40.8	81.5	222.4	699.9	920.4	1 587.0	67.5	.27	98	100	19 527.6
1967 CENSUS.	515	238	51.6	308.3	40.1	81.0	213.0	610.6	874.6	1 482.7	74.4	.27	96	99	19 323.2
1966 ASM....	(NA)	(NA)	54.7	303.3	41.0	83.8	206.4	597.7	850.9	1 438.3	67.2	.29	102	98	19 024.5
1965 ASM....	(NA)	(NA)	47.9	265.9	37.9	78.0	183.7	536.7	745.6	1 267.6	70.2	.27	89	92	18 010.2
1964 ASM....	(NA)	(NA)	40.3	212.9	31.7	65.6	146.6	450.1	628.1	1 068.8	54.7	.23	75	89	17 268.5
1963 CENSUS.	455	207	38.9	193.8	30.8	62.1	136.6	391.9	(NA)	(NA)	22.4	.23	72	87	16 958.4
JOHNSON CITY-KINGSPORT-BRISTOL, TENN.-VA., SMSA															
1977 CENSUS.	429	182	54.5	655.6	40.0	77.4	407.6	1 505.0	1 880.0	3 362.5	102.0	.28	100	100	19 596.9
1972 CENSUS.	369	159	49.3	400.3	31.7	76.1	264.1	832.0	868.6	1 702.3	78.8	.26	91	98	19 028.7
MEMPHIS, TENN.-ARK.-MISS., SMSA															
1977 CENSUS.	1 156	458	64.1	780.1	45.4	90.3	484.9	2 159.7	3 442.9	5 608.3	161.0	.33	100	100	19 596.9
1976 ASM....	(NA)	(NA)	61.3	692.0	42.4	81.9	414.1	1 778.1	3 113.9	4 881.9	139.4	.33	96	96	18 753.0
1975 ASM....	(NA)	(NA)	62.5	645.4	42.8	83.8	402.7	1 622.2	2 940.0	4 561.2	155.3	.34	97	94	18 302.2
1974 ASM....	(NA)	(NA)	66.7	637.7	48.1	94.9	406.9	1 655.3	2 964.2	4 510.2	138.5	.34	104	102	19 844.8
1973 ASM....	(NA)	(NA)	68.2	587.3	49.5	98.0	378.4	1 548.1	2 363.0	3 891.3	119.8	.34	106	102	19 897.9
1972 CENSUS.	1 046	461	64.2	525.9	46.8	94.9	341.9	1 352.4	1 857.6	3 170.6	84.4	.33	100	98	19 028.7
1971 ASM....	(NA)	(NA)	58.6	440.7	41.7	84.3	278.5	1 082.2	1 570.7	2 651.0	90.6	.32	91	94	18 363.1
1970 ASM....	(NA)	(NA)	62.6	430.0	44.8	88.7	264.1	1 023.8	1 473.2	2 488.6	71.9	.33	98	99	19 217.2
1969 ASM....	(NA)	(NA)	63.5	409.9	47.6	94.0	267.8	1 014.6	1 397.7	2 398.0	55.4	.32	99	103	20 035.5
1968 ASM....	(NA)	(NA)	59.7	372.4	44.7	89.0	243.1	906.4	1 344.7	2 248.2	71.4	.31	93	100	19 527.6
1967 CENSUS.	862	387	57.4	332.8	42.1	83.3	211.2	796.3	1 291.2	2 078.6	52.2	.30	90	99	19 323.2
1966 ASM....	(NA)	(NA)	50.8	296.7	37.6	77.6	191.0	765.8	1 179.6	1 917.7	69.1	.27	79	98	19 024.5
1965 ASM....	(NA)	(NA)	48.7	270.1	36.0	75.3	175.7	673.4	1 064.2	1 723.4	41.4	.27	76	92	18 010.2
1964 ASM....	(NA)	(NA)	47.9	256.0	35.0	73.0	166.8	608.5	985.3	1 600.7	37.9	.28	75	89	17 268.5
1963 CENSUS.	816	353	47.1	241.4	34.0	70.2	153.9	575.3	(NA)	(NA)	28.3	.28	73	87	16 958.4
NASHVILLE-DAVIDSON SMSA															
1977 CENSUS.	1 354	460	80.5	914.7	55.7	107.5	554.5	1 935.3	2 436.0	4 342.9	156.5	.41	100	100	19 596.9
1976 ASM....	(NA)	(NA)	78.5	786.7	53.7	106.6	481.4	1 538.0	2 111.1	3 607.0	108.7	.42	98	96	18 753.0
1975 ASM....	(NA)	(NA)	70.3	671.7	50.1	95.6	407.7	1 287.8	1 746.9	3 086.8	127.9	.38	87	94	18 302.2
1974 ASM....	(NA)	(NA)	77.6	694.9	58.3	114.3	441.8	1 389.0	1 822.0	3 167.4	222.0	.39	96	102	19 844.8
1973 ASM....	(NA)	(NA)	77.4	618.4	57.2	111.5	388.8	1 295.8	1 577.9	2 868.4	105.3	.39	96	102	19 897.9
1972 CENSUS.	1 124	421	72.0	549.4	52.7	103.3	342.7	1 149.7	1 341.9	2 470.4	96.8	.38	89	98	19 028.7

(NA) Not available.
¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.
²Including central administrative offices and auxiliaries (for definition, see appendix B).
³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (for appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
TENNESSEE									
1977 CENSUS.....	10 654	77	1 917	4.83	57	75	25 852	41	17.58
1976 ASM.....	9 790	75	1 930	4.38	58	77	22 402	44	15.44
1975 ASM.....	9 128	75	1 911	4.11	57	76	20 547	44	14.38
1974 ASM.....	8 318	78	1 936	3.73	58	77	19 538	43	12.94
1973 ASM.....	7 615	79	1 955	3.39	55	74	17 783	43	11.53
1972 CENSUS.....	7 171	79	1 976	3.16	54	74	16 393	44	10.56
1971 ASM.....	6 653	78	1 960	2.95	53	74	15 148	44	9.90
1970 ASM.....	6 219	78	1 960	2.76	53	74	14 059	44	9.23
1969 ASM.....	5 903	79	1 961	2.63	53	75	13 110	45	8.46
1968 ASM.....	5 633	79	1 977	2.49	54	75	12 767	44	8.12
1967 CENSUS.....	5 239	80	1 963	2.31	55	75	11 773	45	7.52
1966 ASM.....	5 083	80	2 006	2.19	55	76	11 538	44	7.19
1965 ASM.....	4 845	80	2 002	2.10	55	75	11 086	44	6.91
1964 ASM.....	4 703	79	2 009	2.04	55	76	10 372	45	6.50
1963 CENSUS.....	4 503	80	1 986	1.96	(NA)	(NA)	9 869	46	6.22
CHATTANOOGA, TENN.-GA., SMSA									
1977 CENSUS.....	11 381	77	1 947	5.10	61	80	23 954	48	16.06
1976 ASM.....	10 583	77	1 893	4.97	62	80	21 947	48	15.06
1975 ASM.....	9 973	77	1 884	4.69	60	78	21 788	46	15.05
1974 ASM.....	8 995	78	1 883	4.22	60	80	19 435	46	13.30
1973 ASM.....	8 401	79	2 029	3.67	58	79	17 264	49	10.76
1972 CENSUS.....	7 928	79	2 036	3.47	57	78	16 333	49	10.13
1971 ASM.....	7 356	79	2 012	3.23	58	80	14 358	51	9.07
1970 ASM.....	6 689	78	1 986	2.95	59	81	12 672	53	8.15
1969 ASM.....	6 464	79	1 995	2.83	58	79	13 558	48	8.64
1968 ASM.....	6 200	78	1 998	2.73	58	79	13 306	47	8.59
1967 CENSUS.....	5 975	78	2 020	2.63	59	80	11 833	50	7.54
1966 ASM.....	5 545	75	2 044	2.46	59	80	10 927	51	7.13
1965 ASM.....	5 581	79	2 058	2.36	59	80	11 205	50	6.88
1964 ASM.....	5 283	79	2 069	2.23	59	79	11 169	47	6.86
1963 CENSUS.....	4 982	79	2 016	2.20	(NA)	(NA)	10 075	49	6.31
JOHNSON CITY-KINGSPORT-BRISTOL, TENN.-VA., SMSA									
1977 CENSUS.....	12 035	73	1 935	5.27	56	75	27 628	44	19.44
1972 CENSUS.....	8 120	64	2 400	3.47	51	75	16 876	48	10.93
MEMPHIS, TENN.-ARK.-MISS., SMSA									
1977 CENSUS.....	12 166	71	1 989	5.37	61	75	33 681	36	23.90
1976 ASM.....	11 289	69	1 932	5.06	64	78	29 007	39	21.71
1975 ASM.....	10 326	68	1 958	4.81	64	79	25 955	40	19.36
1974 ASM.....	9 561	72	1 973	4.29	66	80	24 817	39	17.44
1973 ASM.....	8 611	73	1 980	3.86	61	76	22 699	38	15.80
1972 CENSUS.....	8 191	73	2 027	3.60	59	75	21 065	39	14.25
1971 ASM.....	7 520	71	2 022	3.30	59	76	18 468	41	12.84
1970 ASM.....	6 869	72	1 980	2.98	59	76	16 385	42	11.54
1969 ASM.....	6 455	75	1 975	2.85	58	75	15 978	40	10.79
1968 ASM.....	6 238	75	1 991	2.73	60	76	15 183	41	10.18
1967 CENSUS.....	5 798	73	1 979	2.54	62	78	13 873	42	9.56
1966 ASM.....	5 841	74	2 064	2.46	62	77	15 075	39	9.87
1965 ASM.....	5 546	74	2 092	2.33	62	77	13 828	40	8.94
1964 ASM.....	5 344	73	2 086	2.28	62	78	12 704	42	8.34
1963 CENSUS.....	5 125	72	2 065	2.19	(NA)	(NA)	12 214	42	8.20
NASHVILLE-DAVIDSON SMSA									
1977 CENSUS.....	11 369	69	1 931	5.16	56	77	24 063	47	18.00
1976 ASM.....	10 022	68	1 985	4.52	59	80	19 592	51	14.43
1975 ASM.....	9 555	71	1 908	4.26	57	78	18 319	52	13.47
1974 ASM.....	8 955	75	1 961	3.87	58	79	17 899	50	12.15
1973 ASM.....	7 990	74	1 949	3.49	55	77	16 742	48	11.62
1972 CENSUS.....	7 631	73	1 960	3.32	54	77	15 968	48	11.13

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹ -----	number -----	6 487	5 647
With 1 to 19 employees -----	do -----	4 010	3 356
With 20 to 99 employees -----	do -----	1 406	1 273
With 100 employees or more -----	do -----	1 071	1 018
All employees, average for year ¹ -----	1,000 -----	489.8	467.4
Payroll for year, all employees ¹ -----	mil. dollars --	5 218.7	3 351.7
Production workers:-----			
Average for year-----	1,000 -----	375.7	367.0
March -----	do -----	366.3	354.7
May -----	do -----	374.0	362.6
August -----	do -----	379.0	372.7
November -----	do -----	383.0	378.0
Hours -----	millions -----	720.3	725.3
January to March -----	do -----	172.4	175.7
April to June -----	do -----	182.5	180.9
July to September -----	do -----	179.9	180.9
October to December -----	do -----	185.4	187.7
Wages-----	mil. dollars --	3 481.2	2 295.1
Cost of materials, etc. ² -----	do -----	16 318.9	8 635.7
Materials, parts, containers, etc., consumed -----	do -----	14 014.8	7 546.7
Resales-----	do -----	1 153.5	630.6
Fuels consumed -----	do -----	355.4	121.3
Purchased electric energy -----	do -----	554.4	184.5
Contract work -----	do -----	240.9	152.6
Value of shipments, including resales ² -----	do -----	28 752.0	16 129.3
Value of resales -----	do -----	1 430.7	723.9
Value added by manufacture -----	do -----	12 663.4	7 662.0
Manufacturers' inventories:-----			
Beginning of year -----	do -----	3 874.3	2 163.7
Finished products -----	do -----	1 381.6	784.7
Work in process -----	do -----	1 143.5	668.7
Materials, supplies, fuel, etc. -----	do -----	1 349.2	710.3
End of year -----	do -----	4 197.5	2 361.7
Finished products -----	do -----	1 491.0	887.9
Work in process -----	do -----	1 292.2	703.1
Materials, supplies, fuel, etc. -----	do -----	1 414.3	770.7
Capital expenditures for plant and equipment -----	do -----	1 026.4	558.2
New capital expenditures -----	do -----	961.1	540.0
New buildings and other structures -----	do -----	160.7	101.2
New machinery and equipment -----	do -----	800.5	438.9
Used capital expenditures -----	do -----	65.3	18.2

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Including central administrative offices and auxiliaries (for definition, see appendix B).

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	137.8	3
Beginning of year.....	9,380.4	1	Buildings and other structures.....	50.7	6
New capital expenditures.....	1,032.0	2	Machinery and equipment.....	87.1	3
Used capital expenditures.....	65.5	4			
Retirements.....	337.9	2	Depreciation charges during 1977:		
End of year.....	10,140.0	1	Total.....	669.3	1
Buildings and other structures:			Buildings and other structures.....	111.9	2
Beginning of year.....	2,287.0	1	Machinery and equipment.....	557.4	1
New capital expenditures.....	179.3	5			
Used capital expenditures.....	13.4	9	Supplemental labor costs:		
Retirements.....	58.4	6	Total.....	946.6	1
End of year.....	2,421.3	1	Legal costs.....	378.9	1
Machinery and equipment:			Voluntary costs.....	567.6	1
Beginning of year.....	7,093.3	1			
New capital expenditures.....	852.7	2	Purchased services:		
Automobiles, trucks, etc., for highway use...	26.5	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	25.7	(NA)	Buildings and other structures.....	90.2	5
All other.....	642.6	(NA)	Response coverage ratio (percent).....	60	(X)
New machinery and equipment, n.s.k.....	157.9	(NA)	Machinery.....	309.3	6
Used capital expenditures.....	52.1	5	Response coverage ratio (percent).....	58	(X)
Retirements.....	279.5	2	Cost of purchased communication services.....	(136.7)	29
End of year.....	7,718.6	1	Response coverage ratio (percent).....	62	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

Figures in parentheses have standard errors of 100 percent or more. (NA) Not available. n.s.k. Not specified by kind.

(X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area		1977										1972		
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
Tennessee	-	6 487	2 477	489.8	5 218.7	375.7	720.3	3 481.2	12 663.4	16 318.9	28 752.0	961.1	457.4	7 662.0
STANDARD METROPOLITAN STATISTICAL AREAS														
Chattanooga, Tenn.-Ga.	E7	671	287	53.9	612.9	41.3	80.3	409.9	1 290.0	2 032.3	3 305.2	89.0	56.8	927.7
Portion in Georgia	E9	118	53	9.9	89.7	8.2	16.6	66.0	199.8	396.3	594.2	11.3	10.5	144.6
Portion in Tennessee	-	553	234	43.9	523.2	33.0	63.7	344.0	1 090.2	1 636.0	2 711.0	77.7	46.3	783.1
Clarksville-Hopkinsville, Tenn.-Ky.	E1	117	44	9.4	89.3	7.1	13.7	58.3	233.3	279.8	513.8	12.9	10.0	134.7
Portion in Kentucky	E1	57	21	3.7	34.6	3.1	6.1	25.0	89.3	124.6	211.5	(D)	3.8	56.8
Portion in Tennessee	E1	60	23	5.6	54.7	4.0	7.5	33.3	144.0	155.2	302.3	8.1	6.2	77.9
Johnson City-Kingsport-Bristol, Tenn.-Va.	E1	429	182	54.5	655.6	40.0	77.4	407.6	1 505.0	1 880.0	3 362.5	102.0	49.3	832.0
Portion in Virginia	E1	119	55	8.7	94.6	6.6	12.8	63.2	217.4	348.7	563.1	19.8	6.4	91.2
Portion in Tennessee	E1	310	127	45.8	560.9	33.4	64.7	344.4	1 287.6	1 531.2	2 799.4	82.3	42.9	740.8
Knoxville	-	546	192	39.6	475.8	29.9	57.8	319.8	1 174.8	1 487.8	2 609.6	88.1	40.9	722.3
Memphis, Tenn.-Ark.-Miss.	-	1 156	458	64.1	780.1	45.4	90.3	484.9	2 159.7	3 442.9	5 608.3	161.0	64.2	1 352.4
Portion in Tennessee	-	1 041	411	58.2	727.1	41.7	83.1	451.2	2 054.8	3 254.4	5 317.5	148.1	59.6	1 277.1
Portion in Mississippi	E1	62	25	3.4	36.7	2.5	4.9	22.5	66.4	112.7	176.2	8.5	2.4	37.3
Portion in Arkansas	-	53	22	1.6	16.3	1.2	2.4	11.2	38.6	75.8	114.5	4.4	2.1	38.0
Nashville-Davidson	-	1 354	460	80.5	914.7	55.7	107.5	554.5	1 935.3	2 436.0	4 342.9	156.5	72.0	1 149.7
COUNTIES														
Anderson	-	84	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Bedford	-	56	31	4.7	41.8	4.0	7.7	32.4	124.2	157.6	276.7	3.9	4.2	74.1
Benton	-	20	5	0.9	8.2	0.8	1.5	6.1	18.4	18.4	36.9	(D)	0.6	8.1
Bledsoe	E2	22	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	2.5
Blount	-	57	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Bradley	-	132	52	11.7	107.1	9.4	17.3	73.1	277.4	321.0	591.0	22.9	12.1	174.9
Campbell	-	38	15	2.1	14.9	1.8	3.3	11.3	29.9	36.0	65.5	1.6	2.4	19.6
Cannon	-	16	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Carroll	E1	36	12	3.0	19.6	2.6	4.6	16.7	46.4	50.6	95.1	1.7	2.6	27.4
Carter	-	35	16	3.5	31.8	2.9	5.5	24.2	58.7	55.2	112.4	3.7	4.0	40.2
Cheatham	-	25	7	2.0	21.0	1.6	3.4	15.2	59.3	73.1	130.1	2.2	1.9	35.1
Chester	-	10	5	1.0	7.1	0.9	1.6	6.1	17.5	19.7	35.4	1.5	0.9	8.8
Claiborne	-	28	10	2.0	12.7	1.8	3.3	11.1	25.8	57.9	85.8	1.1	1.4	12.9
Clay	-	9	5	0.5	3.0	0.5	0.9	2.6	9.5	6.6	16.1	0.1	(D)	(D)
Cocke	-	33	18	3.3	32.8	2.8	5.5	25.8	88.4	137.9	223.7	4.1	3.4	49.4
Coffee	-	71	31	4.5	38.5	3.7	7.1	28.2	84.6	77.6	164.0	6.1	4.3	48.1
Crockett	-	15	6	1.8	13.4	1.5	2.6	9.9	42.0	49.1	92.4	(D)	(D)	(D)
Cumberland	-	55	14	2.0	17.5	1.7	2.9	12.7	35.9	34.5	70.8	3.6	2.2	33.7
Davidson	-	865	293	50.1	617.3	32.3	62.5	355.9	1 237.6	1 662.5	2 886.6	99.7	45.9	792.4
Decatur	-	26	10	2.1	13.0	1.8	3.3	10.6	19.9	10.3	30.0	0.8	2.0	12.8
De Kalb	-	19	9	1.8	10.9	1.7	3.1	9.5	21.6	13.6	34.3	0.8	1.8	13.6
Dickson	E3	50	15	3.0	24.6	2.5	4.5	18.8	62.6	40.6	103.6	2.6	2.6	39.2
Dyer	-	46	13	4.6	48.6	3.9	8.0	36.5	109.4	123.8	231.9	9.8	4.2	71.9
Fayette	-	18	7	1.5	12.1	1.3	2.6	9.6	17.7	32.2	51.5	5.7	1.5	15.6
Fentress	-	34	6	1.2	6.9	1.1	2.0	6.1	17.9	27.4	43.1	0.4	1.4	7.9
Franklin	-	36	11	2.1	16.9	1.9	3.5	14.2	28.3	59.8	90.0	1.2	1.3	22.1
Gibson	-	50	32	8.0	76.9	6.2	11.7	52.8	152.6	157.1	303.4	11.0	9.5	111.6
Giles	-	35	19	3.7	30.5	3.3	6.2	24.8	110.6	83.9	196.7	5.3	3.7	65.3
Grainger	-	23	7	0.7	5.6	0.6	1.1	4.0	13.4	18.4	31.2	0.5	0.6	7.5
Greene	-	74	35	7.5	72.7	5.6	10.7	45.6	198.9	338.9	522.2	8.2	8.1	234.4
Grundy	E1	20	5	0.5	2.4	0.5	0.7	2.0	3.5	2.7	6.3	0.2	0.6	3.2
Hamblen	-	108	45	13.0	127.8	10.3	19.5	87.8	272.4	333.7	595.2	21.5	13.1	182.1
Hamilton	-	506	215	41.3	502.9	30.8	59.7	328.4	1 045.5	1 601.8	2 633.2	74.9	44.6	768.0
Hancock	E1	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Hardeman	-	46	11	1.4	12.4	1.2	2.3	9.5	26.5	42.8	71.3	1.9	2.5	33.8
Hardin	-	48	14	3.2	26.5	2.7	4.9	19.2	76.0	96.9	169.3	(D)	2.2	32.0
Hawkins	-	20	8	3.8	50.0	3.0	6.0	36.6	104.9	105.0	213.3	8.1	4.3	64.9
Haywood	-	24	10	1.2	9.9	1.0	1.9	7.1	20.4	25.4	46.6	1.0	1.5	23.3
Henderson	-	35	16	3.0	24.3	2.7	5.1	21.3	66.1	52.0	115.4	3.2	2.5	33.2
Henry	-	41	17	4.2	40.1	3.5	6.8	31.3	109.1	125.0	231.7	6.5	3.6	49.4
Hickman	-	20	10	1.3	9.8	1.2	2.4	8.3	33.8	25.7	58.6	2.2	1.3	16.2
Houston	E1	20	2	0.4	3.5	0.3	0.7	2.9	6.2	4.0	10.2	0.5	0.4	3.8
Humphreys	-	18	10	2.7	40.4	2.1	4.0	28.1	157.3	204.5	365.7	14.9	2.0	71.6
Jackson	E2	11	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	2.6
Jefferson	-	41	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.9	42.6
Johnson	-	18	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.4	10.3
Knox	-	396	147	25.4	254.7	19.7	37.4	172.4	553.1	760.5	1 306.4	42.1	26.3	355.9
Lake	-	10	6	0.6	3.6	0.5	0.9	2.7	12.2	27.1	38.7	0.3	0.6	5.8
Lauderdale	-	35	17	3.8	29.6	3.4	7.0	26.3	91.7	66.1	156.9	3.4	2.3	63.9
Lawrence	-	53	17	5.3	49.4	4.8	8.8	41.6	120.0	171.5	274.4	8.5	4.7	76.8
Lewis	-	24	6	1.2	12.4	1.1	2.0	10.6	21.5	19.7	40.9	1.3	1.3	18.1
Lincoln	-	35	12	3.3	23.0	2.9	5.3	18.9	61.9	102.0	162.8	(D)	2.8	35.3
Loudon	-	28	13	3.4	32.7	2.9	5.6	25.0	101.0	62.1	162.9	3.4	3.6	55.8
McMinn	-	87	43	8.5	85.8	6.5	12.7	56.5	201.1	243.4	444.9	54.9	7.7	123.8
McNairy	-	44	15	3.4	25.5	2.9	5.1	19.1	61.3	49.4	111.0	2.9	2.9	38.5
Macon	-	38	12	1.7	12.6	1.5	2.7	9.9	22.6	23.4	46.9	0.8	1.4	14.2
Madison	-	102	48	8.3	88.1	6.7	13.2	64.2	208.6	319.3	523.3	15.0	7.6	106.7
Marion	-	33	12	1.6	15.7	1.4	2.7	11.8	38.7	30.8	68.2	2.4	1.2	12.7
Marshall	-	43	22	4.3	36.4	3.6	6.7	26.7	101.5	144.7	246.9	6.5	3.7	51.5
Maury	-	66	39	6.2	69.8	5.0	9.4	51.0	220.8	351.1	561.9	59.9	4.6	82.7
Meigs	E1	13	4	0.4	2.6	0.3	0.5	2.1	4.4	9.1	13.5	0.4	0.3	2.6
Monroe	E1	62	19	2.3	17.5	2.0	3.8	13.9	36.3	30.5	66.8	2.2	1.5	13.4
Montgomery	E1	60	23	5.6	54.7	4.0	7.5	33.3	144.0	155.2	302.3	8.1	5.9	72.2
Moore	-	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Morgan	-	12	5	1.0	5.8	0.9	1.5	4.9	14.6	12.7	27.0	0.2	(D)	(D)
Obion	-	45	19	5.9	73.5	5.1	10.3	60.5	203.5	277.5	478.5	10.2	5.6	109.3

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972		
	E ¹	All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mill- ions)	Wages (million dollars)						
COUNTIES—Con.														
Overton	-	30	8	1.3	8.6	1.1	2.1	6.1	12.9	15.0	28.6	1.3	1.8	15.7
Perry	E1	24	8	1.0	6.7	0.9	1.6	6.0	12.3	8.4	20.6	1.9	0.9	5.8
Pickett	-	9	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	3.4
Polk	-	15	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Putnam	-	115	42	5.9	49.8	4.7	8.4	33.8	107.1	105.1	210.0	5.5	4.4	76.4
Rhea	-	35	15	4.2	33.2	3.6	6.9	25.6	96.0	95.9	186.1	3.8	3.7	44.2
Roane	-	37	16	9.5	129.5	6.0	11.5	67.5	382.0	227.3	599.3	2.9	7.1	121.1
Robertson	-	45	20	3.1	27.4	2.2	4.0	17.1	67.6	88.8	158.9	3.9	2.4	33.7
Rutherford	-	114	44	8.4	92.0	6.0	11.6	57.0	209.4	269.5	475.5	13.1	6.2	94.9
Scott	E2	31	8	0.9	7.0	0.7	1.3	5.0	14.0	19.3	32.3	2.7	1.0	13.3
Sequatchie	E1	14	7	1.0	4.6	0.8	1.4	3.7	6.1	3.5	9.5	0.3	0.4	2.4
Sevier	-	51	11	1.9	16.4	1.6	3.5	13.3	38.5	26.8	65.1	0.9	1.7	20.1
Shelby	-	1 019	402	58.2	717.2	40.9	81.4	445.0	2 023.7	3 215.8	5 245.6	142.9	57.9	1 252.9
Smith	-	16	7	1.3	8.4	1.2	2.2	7.1	19.1	29.4	48.5	(D)	1.2	10.4
Stewart	E2	15	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	3.0
Sullivan	-	122	47	25.5	354.6	18.3	35.5	211.2	847.0	1 110.2	1 936.3	56.2	22.6	482.9
Sumner	-	129	36	5.0	48.1	4.0	7.6	33.6	116.7	147.3	256.8	22.2	4.7	51.0
Tipton	-	22	9	1.0	9.9	0.8	1.7	6.2	31.0	38.6	71.9	5.2	1.7	24.1
Trousdale	-	8	7	1.4	8.8	1.2	2.1	7.0	24.3	15.0	34.8	0.5	1.1	9.6
Unicoi	-	20	7	1.4	14.7	1.1	2.2	10.5	33.1	16.0	48.7	1.4	1.7	20.3
Union	E1	9	3	0.2	1.5	0.2	0.3	1.1	3.9	3.4	7.2	0.1	0.2	1.5
Van Buren	E1	10	4	0.6	3.6	0.6	1.0	2.9	3.7	4.3	8.1	(D)	(D)	(D)
Warren	-	62	21	6.5	57.0	5.5	10.6	44.4	151.8	152.7	302.3	7.0	5.3	75.6
Washington	-	113	49	11.7	109.8	8.2	15.4	61.9	244.0	244.8	488.7	12.8	10.3	132.5
Wayne	-	24	8	1.8	11.3	1.6	2.6	9.1	26.1	27.2	52.7	0.9	2.3	20.0
Weakley	-	42	16	3.5	23.9	3.0	5.5	18.2	45.2	41.8	86.2	1.8	3.1	31.2
White	-	34	18	3.4	25.4	2.9	5.2	19.2	48.8	54.5	102.3	2.1	2.7	23.6
Williamson	-	58	16	3.6	31.4	2.6	5.1	18.0	70.5	60.2	131.6	7.7	2.7	36.2
Wilson	-	68	29	5.4	53.1	4.5	8.8	38.8	111.8	94.1	199.7	5.2	5.7	73.3
CITIES														
Alcoa	-	6	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Athens	-	45	19	4.0	37.3	3.0	6.0	23.2	77.9	106.9	179.3	(D)	3.1	44.8
Bolivar	-	22	4	0.6	5.3	0.5	0.9	4.1	7.8	20.5	31.0	1.2	1.4	17.3
Bristol	-	46	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Brownsville	-	24	10	1.2	9.9	1.0	1.9	7.1	20.4	25.4	46.6	1.0	(D)	(D)
Camden	-	14	5	0.9	8.1	0.7	1.5	6.1	18.2	18.1	36.5	(D)	(D)	(D)
Centerville	-	16	7	1.2	9.0	1.1	2.2	7.6	31.7	24.3	55.0	1.9	1.1	15.5
Chattanooga	-	413	188	38.1	468.0	28.4	55.2	308.3	989.6	1 517.1	2 472.9	67.2	36.1	577.0
Clarksville	E1	57	23	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.8	71.3
Cleveland	-	113	46	9.9	89.3	8.0	14.8	61.5	185.6	273.5	454.2	(D)	11.4	153.7
Clinton	-	19	8	0.9	9.9	0.7	1.4	7.2	34.8	23.9	58.2	3.8	(NA)	(NA)
Collegedale	-	6	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	18.6
Collierville	-	23	15	1.8	18.0	1.4	2.8	12.5	79.7	124.5	204.5	(D)	(D)	(D)
Columbia	-	48	28	4.6	52.8	3.6	6.9	38.5	153.5	271.7	430.9	(D)	3.2	46.3
Cookeville	-	92	35	5.0	43.5	4.0	7.2	29.2	95.8	93.4	187.0	5.2	3.7	71.4
Covington	-	17	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Crossville	-	50	14	1.9	17.3	1.6	2.8	12.4	35.4	34.0	69.8	3.6	2.1	33.2
Dayton	-	20	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	16.5
Dickson	E2	23	8	2.4	19.7	2.0	3.7	15.3	51.2	30.6	82.4	2.0	2.1	28.3
Dyer	-	10	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Dyersburg	-	36	8	3.8	42.9	3.2	6.8	32.1	99.7	114.3	213.7	(D)	3.7	66.9
Elizabethton	-	28	16	3.5	31.7	2.9	5.5	24.1	58.4	54.5	111.4	3.6	4.0	40.1
Erwin	-	14	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	19.1
Etowah	-	17	11	1.7	12.4	1.4	2.6	9.6	18.5	42.4	66.9	1.5	1.5	21.2
Fayetteville	-	32	12	3.3	22.9	2.9	5.3	18.9	61.8	101.8	162.5	(D)	2.6	32.5
Franklin	-	44	16	3.5	30.2	2.5	5.0	17.6	69.3	59.2	129.4	7.6	2.5	33.2
Gallatin	-	45	16	2.3	23.4	1.9	3.7	17.2	58.5	96.3	151.0	(D)	2.6	32.4
Goodlettsville	-	33	11	1.5	19.2	1.2	2.3	14.1	34.0	111.6	146.2	1.9	(NA)	(NA)
Greeneville	-	60	32	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Harriman	-	20	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	22.2
Henderson	-	9	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hendersonville	-	49	4	0.8	11.0	0.5	1.0	6.0	27.9	18.6	44.1	1.7	(NA)	(NA)
Hohenwald	-	24	6	1.2	12.4	1.1	2.0	10.6	21.5	19.7	40.9	1.3	1.3	18.1
Humboldt	-	20	12	1.9	19.0	1.6	3.1	14.4	35.2	68.5	101.3	4.3	2.0	21.4
Huntingdon	-	8	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jackson	-	91	41	5.1	57.1	4.0	8.0	39.6	129.4	246.0	369.3	10.1	(D)	(D)
Jefferson City	-	13	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Johnson City	-	87	41	10.7	102.2	7.4	14.1	57.0	232.2	225.4	458.0	11.8	7.5	85.8
Kingsport	-	57	23	18.5	271.7	12.9	25.4	164.4	436.3	907.2	1 346.0	(D)	6.2	88.5
Knoxville	-	323	109	18.5	183.4	14.2	27.1	122.3	404.4	582.1	982.1	24.9	23.6	313.8
Lafayette	-	19	7	1.3	9.9	1.1	2.1	7.8	18.3	20.9	40.1	(D)	1.0	11.9
La Follette	-	23	7	1.3	7.9	1.0	1.8	5.7	12.3	13.4	25.2	0.9	2.0	15.3
La Vergne	-	16	8	2.0	27.0	1.3	2.4	16.1	52.4	109.1	155.9	(D)	(D)	(D)
Lawrenceburg	-	30	11	4.6	44.8	4.2	7.7	37.7	109.8	156.8	250.1	(D)	(D)	(D)
Lebanon	-	51	25	5.0	50.5	4.2	8.3	37.0	108.0	92.1	194.0	5.0	5.2	68.5
Lenoir City	-	12	4	0.6	3.9	0.5	1.0	3.3	6.7	15.9	22.6	0.1	0.5	4.1
Lewisburg	-	38	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lexington	-	26	15	2.9	23.9	2.6	5.0	21.0	65.1	51.0	113.6	3.1	2.4	32.9
Livingston	E1	23	6	1.2	7.8	1.0	2.0	5.5	11.4	14.0	26.0	1.2	1.7	14.6
Loudon	-	12	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	34.4
McKenzie	-	14	6	1.4	7.7	1.2	2.0	6.2	17.2	18.3	35.2	0.3	1.4	16.5
McMinnville	-	51	18	6.1	54.6	5.2	10.0	42.3	145.5	148.4	291.9	(D)	(D)	(D)

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972			
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)							
CITIES—Con.															
Manchester	-	22	5	1.2	10.0	1.0	2.0	7.6	31.7	15.2	46.8	(D)	0.8	4.8	
Martin	-	16	4	0.9	6.2	0.8	1.3	4.6	13.2	16.4	29.4	0.6	1.3	17.3	
Maryville	-	36	8	0.6	5.6	0.4	0.8	3.2	14.8	15.8	30.4	1.8	0.9	20.2	
Memphis	-	917	358	51.7	634.8	36.2	72.2	391.0	1 725.4	2 719.2	4 452.4	106.5	54.1	1 161.6	
Milan	-	18	10	3.9	41.3	2.9	5.6	27.6	81.9	61.6	140.5	5.9	5.6	65.9	
Morristown	-	96	42	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Mount Pleasant	-	10	5	0.5	6.4	0.4	0.8	4.5	13.4	17.7	32.5	(D)	(D)	(D)	
Murfreesboro	-	68	29	5.3	54.9	4.0	7.5	34.7	136.7	134.6	272.4	6.4	5.1	80.0	
Nashville-Davidson	-	829	281	48.4	596.1	31.1	60.2	341.8	1 193.9	1 540.9	2 720.5	96.8	(NA)	(NA)	
Newport	-	28	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Oak Ridge	-	53	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Oneida	-	18	5	0.7	5.4	0.6	1.1	4.0	11.6	16.9	27.8	2.2	0.9	11.9	
Paris	-	30	13	3.8	35.7	3.2	6.1	28.0	100.1	113.1	210.9	(D)	3.0	41.2	
Portland	-	21	11	1.3	9.3	1.1	1.9	7.3	21.8	20.7	41.8	1.5	0.9	6.5	
Pulaski	-	22	11	1.6	12.8	1.4	2.7	10.1	24.8	26.3	48.8	(D)	1.7	14.9	
Ripley	-	17	9	1.7	14.1	1.6	3.3	12.8	23.7	34.4	58.3	2.0	0.6	5.3	
Rockwood	-	7	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	10.3	
Rogersville	-	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Savannah	-	33	9	1.9	11.8	1.8	3.0	9.7	22.1	20.9	42.5	0.5	1.3	11.3	
Selmer	-	19	8	1.9	16.6	1.7	3.0	11.9	36.3	28.1	63.4	1.7	1.6	23.8	
Sevierville	-	21	9	1.0	7.3	0.8	1.6	5.9	20.6	12.4	32.8	0.5	1.5	17.5	
Shelbyville	-	48	29	4.6	40.6	3.9	7.5	31.6	122.4	155.1	272.7	(D)	4.1	73.2	
Smithville	-	12	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	11.8	
Smyrna	-	27	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	9.0	
South Pittsburg	-	15	8	1.1	10.3	1.0	1.9	8.1	23.2	19.7	42.7	1.7	0.9	6.3	
Sparta	-	30	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	21.3	
Springfield	-	34	19	3.0	26.6	2.1	3.9	16.4	64.9	85.7	153.2	3.7	2.1	31.6	
Sweetwater	-	25	9	1.1	10.0	1.0	1.9	7.8	23.5	20.2	43.9	1.8	0.5	6.8	
Trenton	-	8	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	7.6	
Tullahoma	-	47	23	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	37.8	
Union City	-	20	8	4.6	62.0	4.0	8.3	50.3	186.1	263.4	447.3	(D)	(D)	(D)	
Winchester	-	18	5	0.7	6.7	0.6	1.2	5.5	9.7	44.6	56.0	0.5	(NA)	(NA)	

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employ-ees ² (1,000)	Value added by manu-facture (million dollars)
			Total (no.)	With 20 employ-ees or more (no.)	Num-ber ² (1,000)	Payroll (million dollars)	Num-ber (1,000)	Hours (mil.)	Wages (million dollars)						
20	All industries -----	-	6 487	2 477	489.8	5 218.7	375.7	720.3	3 481.2	12 663.4	16 318.9	28 752.0	961.1	467.4	7 662.0
	Food and kindred products -----	-	508	253	37.2	436.5	24.5	49.6	250.0	1 279.9	3 473.1	4 784.6	104.0	32.8	690.2
201	Meat products -----	-	126	37	8.1	91.3	6.5	13.4	67.7	219.0	823.8	1 046.5	8.4	6.8	113.4
2011	Meat packing plants -----	E1	76	18	4.5	55.1	3.6	7.7	40.6	145.4	534.5	682.1	5.8	5.2	84.7
2013	Sausages and other prepared meats -----	-	39	12	1.8	24.7	1.3	2.5	17.1	55.7	210.1	266.7	1.3	0.9	20.2
2016	Poultry dressing plants -----	-	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972		
			E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
20	Food and kindred products—Con.															
202	Dairy products -----	-	52	36	3.4	40.2	1.7	3.4	16.9	103.4	323.6	430.0	20.3	3.5	68.4	
2022	Cheese, natural and processed -----	-	12	6	0.3	2.8	0.2	0.4	1.9	10.3	37.7	47.6	0.3	BB	(D)	
2023	Condensed and evaporated milk -----	-	6	3	0.3	2.7	0.2	0.4	2.2	5.8	49.4	57.2	(D)	0.3	6.1	
2024	Ice cream and frozen desserts -----	-	10	8	0.5	5.2	0.3	0.6	2.5	13.3	29.1	42.3	0.6	0.6	12.1	
2026	Fluid milk -----	-	21	16	2.2	28.5	0.9	1.9	9.8	72.7	179.5	251.6	19.1	2.2	42.0	
203	Preserved fruits and vegetables -----	-	37	19	3.6	31.1	2.9	5.7	21.7	93.8	166.5	260.3	5.0	2.1	30.0	
2032	Canned specialties -----	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
2033	Canned fruits and vegetables -----	-	11	5	0.6	3.7	0.5	0.6	2.3	9.0	17.5	26.5	0.4	0.4	4.5	
2035	Pickles, sauces, and salad dressings -----	-	11	4	0.2	2.4	0.1	0.2	0.7	6.1	14.2	20.3	0.4	(NA)	(NA)	
2037	Frozen fruits and vegetables -----	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
2038	Frozen specialties -----	-	9	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
204	Grain mill products -----	-	75	36	3.3	44.9	2.4	5.3	32.1	230.0	510.2	739.2	14.2	3.4	113.8	
2041	Flour and other grain mill products -----	-	22	10	0.9	10.7	0.6	1.4	6.9	62.6	152.8	218.6	3.1	1.2	42.3	
2043	Cereal breakfast foods -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
2047	Dog, cat, and other pet food -----	-	7	6	0.3	3.5	0.2	0.5	2.5	13.4	60.1	73.2	1.2	(NA)	(NA)	
2048	Prepared feeds, n.e.c. -----	E1	39	15	1.0	10.4	0.6	1.3	5.7	30.3	179.5	209.4	3.2	EE	(D)	
205	Bakery products -----	-	49	35	7.0	86.4	3.9	7.8	39.2	197.1	156.8	354.3	10.2	6.5	102.9	
2051	Bread, cake, and related products -----	-	45	31	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
2052	Cookies and crackers -----	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
206	Sugar and confectionery products -----	-	9	6	1.3	11.7	1.1	2.1	7.1	36.6	29.7	67.4	4.1	1.2	20.4	
2065	Confectionery products -----	-	9	6	1.3	11.7	1.1	2.1	7.1	36.6	29.7	67.4	4.1	CC	(D)	
207	Fats and oils -----	-	26	15	2.1	28.9	1.5	3.2	18.5	51.5	954.0	1 028.0	10.4	1.8	43.9	
2074	Cottonseed oil mills -----	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
2075	Soybean oil mills -----	-	5	5	0.6	9.2	0.5	1.1	6.3	8.7	539.5	555.1	2.5	BB	(D)	
2077	Animal and marine fats and oils -----	-	14	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	4.4	
2079	Shortening and cooking oils -----	-	3	3	0.9	13.1	0.6	1.3	8.2	25.2	311.3	353.0	4.5	CC	(D)	
208	Beverages -----	-	72	51	5.4	66.7	2.2	4.3	23.5	254.5	344.8	599.0	20.7	5.0	145.9	
2082	Malt beverages -----	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
2085	Distilled liquor, except brandy -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
2086	Bottled and canned soft drinks -----	-	66	46	4.0	43.5	1.3	2.7	10.4	115.7	169.9	284.3	14.8	FF	(D)	
209	Miscellaneous foods and kindred products -----	-	62	18	3.0	35.3	2.2	4.4	23.3	94.0	163.7	259.9	10.9	2.5	51.6	
2095	Roasted coffee -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
2099	Food preparations, n.e.c. -----	-	43	15	2.6	29.3	1.9	3.8	19.4	72.0	119.2	193.5	10.1	2.0	37.9	
21	Tobacco products ----		8	7	1.1	10.2	0.9	1.6	6.1	41.9	76.3	118.3	(D)	1.1	27.7	
2131	Chewing and smoking tobacco -----	-	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
2141	Tobacco stemming and redrying -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
22	Textile mill products --		171	107	27.1	226.4	24.1	48.2	182.6	426.5	689.6	1 110.5	37.2	32.4	340.0	
2211	Weaving mills, cotton -----	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
2221	Weaving mills, manmade fiber and silk -----	-	7	5	2.4	25.8	2.1	4.6	19.3	47.3	36.3	79.1	(D)	FF	(D)	
2241	Narrow fabric mills -----	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
225	Knitting mills -----	-	80	57	12.9	92.5	11.5	21.7	74.2	173.7	239.4	412.4	9.1	16.2	145.6	
2251	Women's hosiery, except socks -----	-	14	9	2.2	15.0	2.0	3.5	11.6	20.6	28.5	50.3	0.7	5.0	38.8	
2252	Hosiery, n.e.c. -----	-	35	29	4.2	27.4	3.8	6.9	22.7	50.6	62.2	111.7	1.9	4.4	32.9	
2253	Knit outerwear mills -----	-	11	5	0.7	4.1	0.6	1.2	3.4	6.3	5.0	11.4	0.1	BB	(D)	
2254	Knit underwear mills -----	-	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
2257	Circular knit fabric mills -----	-	9	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
2258	Warp knit fabric mills -----	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
226	Textile finishing, except wool -----	-	17	8	1.4	12.4	1.2	2.5	9.4	25.3	74.4	101.4	1.2	1.3	17.6	
2262	Finishing plants, synthetics -----	-	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
2269	Finishing plants, n.e.c. -----	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
227	Floor covering mills -----	-	11	6	1.3	14.4	1.1	2.4	10.1	23.7	78.2	102.3	(D)	1.6	25.1	
2272	Tufted carpets and rugs -----	-	11	6	1.3	14.4	1.1	2.4	10.1	23.7	78.2	102.3	(D)	EE	(D)	
228	Yarn and thread mills -----	-	19	14	4.8	43.2	4.5	9.3	37.9	90.0	147.1	234.3	10.4	5.2	51.5	
2281	Yarn mills, except wool -----	-	9	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
2282	Throwing and winding mills -----	-	7	7	3.0	27.6	2.8	5.9	24.3	58.2	111.7	168.1	8.1	FF	(D)	
2284	Thread mills -----	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
229	Miscellaneous textile goods -----	-	30	12	2.1	19.9	1.8	3.7	15.8	37.5	82.5	118.9	0.9	EE	(D)	
2295	Coated fabrics, not rubberized -----	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
2296	Tire cord and fabric -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
2298	Cordage and twine -----	-	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
2299	Textile goods, n.e.c. -----	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
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[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972		
			E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
23	Apparel and other textile products -----	-		443	313	69.9	441.1	61.7	107.7	358.6	919.1	849.8	1 741.9	(D)	58.2	589.3
2311	Men's and boys' suits and coats -----	E1	21	17	5.3	36.8	4.8	7.9	30.5	79.7	36.8	112.8	(D)	4.4	39.6	
232	Men's and boys' furnishings -----	-	185	162	41.3	253.4	36.7	64.3	211.7	560.1	590.1	1 132.0	(D)	43.4	378.2	
2321	Men's and boys' shirts and nightwear -----	-	59	54	12.8	74.2	11.4	20.0	60.6	143.3	154.2	290.1	(D)	14.9	115.5	
2322	Men's and boys' underwear -----	E1	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
2327	Men's and boys' separate trousers -----	-	21	15	5.8	42.7	5.4	9.9	38.3	62.0	57.6	118.9	2.3	8.5	84.5	
2328	Men's and boys' work clothing -----	-	74	70	18.7	113.7	16.5	28.4	94.8	316.9	331.9	642.2	(D)	17.0	149.7	
2329	Men's and boys' clothing, n.e.c. -----	-	27	20	3.1	17.5	2.7	4.7	13.9	28.3	38.9	64.2	1.3	FF	(D)	
233	Women's and misses' outerwear -----	E2	126	79	12.7	72.4	11.3	19.1	58.5	132.1	70.8	204.4	(D)	9.7	71.7	
2331	Women's and misses' blouses and waists -----	-	19	15	1.9	9.3	1.7	2.6	7.5	13.2	1.4	15.1	(D)	1.7	10.6	
2335	Women's and misses' dresses -----	E4	57	25	3.7	21.6	3.4	5.6	18.0	32.4	12.3	44.6	0.4	3.1	21.0	
2337	Women's and misses' suits and coats -----	-	16	12	2.2	12.4	1.8	3.3	9.6	31.4	31.5	65.4	0.3	EE	(D)	
2339	Women's and misses' outerwear, n.e.c. -----	E2	34	27	5.0	29.0	4.3	7.6	23.3	55.1	25.6	79.4	1.6	FF	(D)	
234	Women's and children's undergarments -----	-	9	7	2.0	12.3	1.7	3.1	9.3	19.9	15.4	35.0	(D)	EE	(D)	
2341	Women's and children's underwear -----	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
2342	Brassieres and allied garments -----	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
236	Children's outerwear -----	-	13	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	11.8	
2361	Children's dresses and blouses -----	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
2363	Children's coats and suits -----	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
2369	Children's outerwear, n.e.c. -----	-	5	5	0.9	5.1	0.7	1.3	4.1	8.7	5.7	14.1	(D)	CC	(D)	
238	Miscellaneous apparel and accessories -----	E1	13	8	1.2	6.6	1.1	2.0	5.1	11.6	6.2	16.0	(D)	1.6	10.5	
2381	Fabric dress and work gloves -----	E2	4	3	0.4	2.6	0.4	0.8	2.0	3.8	5.5	9.3	0.1	0.9	6.4	
2384	Robes and dressing gowns -----	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
2386	Leather and sheep lined clothing -----	E1	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
239	Miscellaneous fabricated textile products -----	-	72	26	4.6	43.4	3.9	7.4	32.0	87.1	113.9	197.3	(D)	5.3	56.8	
2391	Curtains and draperies -----	E1	17	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	2.4	
2392	House furnishings, n.e.c. -----	-	11	6	0.5	3.7	0.4	0.8	2.5	10.5	11.1	20.9	0.5	0.7	7.7	
2393	Textile bags -----	-	5	3	0.3	2.3	0.2	0.5	1.7	4.5	11.2	15.6	(D)	AA	(D)	
2394	Canvas and related products -----	-	10	3	0.5	5.0	0.4	0.7	2.9	6.0	16.6	23.2	(D)	CC	(D)	
2396	Automotive and apparel trimmings -----	-	11	6	0.3	2.5	0.2	0.4	1.8	6.2	10.3	16.5	0.1	AA	(D)	
2399	Fabricated textile products, n.e.c. -----	-	12	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	31.8	
24	Lumber and wood products -----	E1	979	192	16.7	131.3	14.4	26.5	99.4	261.8	344.9	606.2	26.7	16.4	196.3	
2411	Logging camps and logging contractors -----	E5	198	4	0.7	5.5	0.6	0.9	4.6	10.1	12.5	22.6	1.1	BB	(D)	
242	Sawmills and planing mills -----	E1	502	90	7.7	58.3	6.9	12.8	46.3	121.7	153.0	278.1	16.5	7.8	93.3	
2421	Sawmills and planing mills, general -----	E3	423	49	3.6	26.1	3.2	5.7	20.7	57.3	68.2	125.2	8.3	3.1	56.5	
2426	Hardwood dimension and flooring -----	-	65	37	3.8	30.1	3.5	6.7	24.0	66.0	80.0	145.5	(D)	4.5	34.6	
2429	Special product sawmills, n.e.c. -----	-	14	4	0.3	2.1	0.2	0.4	1.5	(S)	4.8	7.4	(D)	0.2	2.2	
243	Millwork, plywood, and structural members -----	E2	119	38	3.1	26.4	2.4	4.5	17.6	54.2	69.0	121.2	2.1	3.1	38.8	
2431	Millwork -----	E3	35	12	1.4	12.2	1.1	2.1	7.9	23.0	36.4	57.9	0.8	1.2	13.8	
2434	Wood kitchen cabinets -----	E1	60	14	1.0	8.5	0.7	1.3	5.9	19.6	19.9	39.0	0.9	CC	(D)	
2435	Hardwood veneer and plywood -----	-	9	7	0.5	4.0	0.4	0.8	2.9	6.5	8.9	15.4	0.2	0.9	14.0	
2439	Structural wood members, n.e.c. -----	E1	15	5	0.2	1.7	0.1	0.2	0.9	5.1	3.9	8.9	0.1	BB	(D)	
244	Wood containers -----	E1	54	21	1.8	13.2	1.6	3.0	10.6	19.1	22.8	41.4	1.4	EE	(D)	
2441	Nailed wood boxes and shooks -----	-	9	4	0.5	3.3	0.5	0.9	2.7	4.2	5.4	9.1	(D)	BB	(D)	
2448	Wood pallets and skids -----	E2	37	12	0.7	5.0	0.6	1.0	3.9	8.4	10.5	18.8	1.0	BB	(D)	
2449	Wood containers, n.e.c. -----	-	8	5	0.6	4.8	0.5	1.0	4.0	6.5	6.9	13.5	(D)	0.7	6.7	
245	Wood buildings and mobile homes -----	E1	26	15	1.6	12.8	1.3	2.3	8.9	25.5	52.7	78.1	2.4	1.7	26.7	
2451	Mobile homes -----	E1	14	11	1.4	11.0	1.1	2.0	7.7	21.1	46.5	67.6	(D)	EE	(D)	
2452	Prefabricated wood buildings -----	E1	12	4	0.2	1.8	0.2	0.3	1.1	4.4	6.2	10.5	(D)	BB	(D)	
249	Miscellaneous wood products -----	-	80	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	21.4	
2491	Wood preserving -----	-	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
2499	Wood products, n.e.c. -----	E1	74	21	1.6	13.0	1.4	2.6	9.9	23.0	24.4	46.9	(D)	EE	(D)	

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972		
			E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
25	Furniture and fixtures -	-		341	132	23.0	191.6	19.4	36.5	135.6	381.2	373.6	752.1	16.9	26.4	286.4
251	Household furniture -	-		262	103	19.3	158.9	16.4	30.6	112.4	297.3	301.6	593.6	14.0	22.8	237.9
2511	Wood household furniture -	E1		113	28	6.9	54.1	6.1	11.5	39.3	95.8	90.6	186.0	5.5	6.2	69.2
2512	Upholstered household furniture -	-		105	55	8.0	64.6	6.8	12.5	47.5	118.6	121.5	237.4	4.8	8.5	89.8
2514	Metal household furniture -	-		10	7	1.9	18.6	1.5	2.7	11.5	40.8	41.1	79.9	2.0	2.0	22.8
2515	Mattresses and bedsprings -	-		24	8	1.1	10.1	0.8	1.5	5.2	23.4	29.7	52.6	0.8	1.7	21.4
2517	Wood TV and radio cabinets -	-		3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2519	Household furniture, n.e.c. -	-		7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
252	Office furniture -	-		9	3	0.2	2.6	0.2	0.4	1.8	11.0	3.8	15.1	0.2	BB	(D)
2522	Metal office furniture -	-		3	3	0.2	2.5	0.2	0.3	1.7	10.7	3.6	14.5	0.2	BB	(D)
2531	Public building and related furniture -	-		17	9	0.6	6.1	0.5	1.0	4.1	12.0	11.5	23.3	0.5	CC	(D)
254	Partitions and fixtures -	E1		35	10	1.4	11.9	1.1	2.2	8.6	28.5	31.1	59.1	1.6	EE	(D)
2541	Wood partitions and fixtures -	E1		28	5	0.8	5.6	0.6	1.3	4.3	8.8	14.4	23.2	(D)	1.0	12.2
2542	Metal partitions and fixtures -	E1		7	5	0.7	6.3	0.5	0.9	4.3	19.6	16.6	36.0	(D)	0.5	7.8
259	Miscellaneous furniture and fixtures -	-		18	7	1.4	12.0	1.1	2.4	8.7	32.4	25.6	61.0	0.6	1.0	13.3
2591	Drapery hardware and blinds and shades -	-		6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2599	Furniture and fixtures, n.e.c. -	-		12	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
26	Paper and allied products -	-		136	101	16.5	211.8	12.5	25.5	149.0	618.4	775.9	1 389.2	99.2	16.3	360.9
2611	Pulp mills -	-		3	3	0.9	11.8	0.4	1.1	6.0	26.9	40.0	64.0	(D)	CC	(D)
2621	Paper mills, except building paper -	E1		4	4	2.8	51.0	2.3	4.9	40.0	156.1	177.3	334.5	(D)	FF	(D)
2631	Paperboard mills -	-		8	7	1.4	22.9	1.1	2.3	16.1	78.3	92.5	170.7	27.3	EE	(D)
264	Miscellaneous converted paper products -	-		48	31	6.5	69.5	4.9	9.8	47.9	230.4	256.9	485.9	12.2	6.1	147.0
2641	Paper coating and glazing -	-		10	6	0.8	7.1	0.6	1.2	4.8	21.0	37.1	58.3	1.2	0.6	12.1
2642	Envelopes -	-		4	4	0.5	4.7	0.4	0.7	3.1	10.2	10.2	20.2	0.1	BB	(D)
2643	Bags, except textile bags -	-		12	10	1.4	15.2	1.2	2.4	11.5	32.1	56.0	89.7	1.7	1.3	20.8
2647	Sanitary paper products -	-		3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2648	Stationery products -	E1		3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	5.7
2649	Converted paper products, n.e.c. -	-		12	5	2.3	20.5	1.5	2.9	11.4	83.9	60.4	142.1	(D)	EE	(D)
265	Paperboard containers and boxes -	-		71	54	4.7	56.1	3.7	7.4	38.4	125.3	208.0	331.6	9.0	5.6	74.8
2651	Folding paperboard boxes -	-		14	11	1.0	11.0	0.8	1.7	8.4	28.3	39.1	67.1	2.1	1.1	16.0
2652	Setup paperboard boxes -	-		7	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2653	Corrugated and solid fiber boxes -	-		39	29	2.9	36.5	2.1	4.4	23.2	72.3	137.4	208.7	5.8	3.2	43.9
2655	Fiber cans, drums, and similar products -	-		9	8	0.5	5.9	0.4	0.8	4.8	15.5	23.7	38.8	0.6	0.8	10.2
27	Printing and publishing -	-		862	152	23.8	257.4	14.1	26.8	142.2	509.7	297.1	807.1	48.5	19.4	274.4
2711	Newspapers -	-		152	33	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.1	90.8
2721	Periodicals -	-		41	11	2.2	25.1	0.4	0.7	3.6	43.5	24.4	68.2	3.1	2.2	31.1
273	Books -	-		35	12	5.4	56.7	3.9	7.5	35.3	111.7	74.1	186.1	(D)	3.1	35.2
2731	Book publishing -	-		23	6	0.8	11.3	0.2	0.4	1.7	33.8	31.2	63.8	4.6	BB	(D)
2732	Book printing -	-		12	6	4.6	45.3	3.7	7.1	33.6	77.9	43.0	122.3	(D)	FF	(D)
2741	Miscellaneous publishing -	E4		85	6	0.4	3.9	0.1	0.2	0.8	9.3	4.2	13.5	0.2	0.6	9.5
275	Commercial printing -	E1		450	61	6.5	79.9	5.2	9.8	58.8	140.0	116.0	255.8	22.2	5.5	85.5
2751	Commercial printing, letterpress -	E3		258	15	1.4	15.0	1.1	2.0	10.5	29.3	19.7	49.2	(D)	EE	(D)
2752	Commercial printing, lithographic -	-		174	41	4.2	49.5	3.3	6.0	35.4	82.4	56.5	138.6	3.6	2.4	33.5
2754	Commercial printing, gravure -	-		10	4	0.9	14.8	0.8	1.7	12.5	27.0	39.4	66.4	(D)	CC	(D)
2761	Manifold business forms -	E5		14	6	0.3	3.5	0.2	0.4	2.4	6.9	6.3	13.2	0.5	0.4	3.7
278	Blankbooks and bookbinding -	-		22	10	1.2	10.5	1.0	1.9	8.6	21.7	10.3	32.0	1.3	0.5	5.0
2782	Blankbooks and looseleaf binders -	-		13	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2789	Bookbinding and related work -	-		9	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
279	Printing trade services -	E1		62	12	0.9	12.0	0.7	1.3	8.2	20.7	6.0	26.7	1.6	CC	(D)
2791	Typesetting -	E3		40	5	0.3	4.1	0.3	0.5	3.1	7.6	1.2	8.8	(D)	0.3	4.6
2793	Photoengraving -	-		6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2795	Lithographic platemaking services -	-		13	6	0.4	5.1	0.3	0.5	3.2	9.0	3.6	12.6	0.7	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
28	Chemicals and allied products -----	-	242	109	53.0	803.7	33.8	55.0	441.1	2 275.7	2 398.1	4 650.7	191.1	50.5	1 396.0
281	Industrial inorganic chemicals --	-	47	23	17.7	280.8	10.4	20.4	143.0	997.6	605.5	1 600.0	65.8	12.4	454.3
2813	Industrial gases -----	-	22	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2816	Inorganic pigments -----	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2819	Industrial inorganic chemicals, n.e.c. -----	-	21	18	16.6	261.1	9.6	18.9	131.9	876.5	526.0	1 399.9	55.5	11.3	388.4
282	Plastics materials and synthetics -----	-	16	16	19.8	301.2	14.1	26.9	185.6	602.3	887.3	1 496.5	47.6	21.3	447.8
2821	Plastics materials and resins --	-	6	6	2.3	37.7	1.5	2.9	21.6	158.5	190.7	348.1	4.0	EE	(D)
2823	Cellulosic manmade fibers ---	-	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2824	Organic fibers, noncellulosic -	-	8	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
283	Drugs -----	-	21	8	2.8	38.3	1.5	3.2	14.6	163.2	59.8	216.5	4.3	3.3	111.2
2834	Pharmaceutical preparations -	-	13	6	2.8	37.3	1.4	3.1	14.1	160.5	58.3	212.3	4.2	3.3	111.2
284	Soaps, cleaners, and toilet goods -----	-	46	12	1.6	15.6	1.1	2.0	8.2	96.4	57.5	153.0	3.4	1.3	47.3
2841	Soap and other detergents --	E1	7	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2842	Polishes and sanitation goods -----	-	22	3	0.2	2.2	0.1	0.2	0.9	11.5	18.8	30.2	(D)	BB	(D)
2844	Toilet preparations -----	-	12	6	1.1	9.7	0.9	1.6	6.3	75.9	22.4	97.3	2.2	0.7	30.6
2851	Paints and allied products -----	E2	23	8	0.6	7.4	0.4	0.7	3.2	12.5	34.9	49.0	0.8	0.7	12.2
286	Industrial organic chemicals ---	-	15	11	6.4	107.9	4.0	8.0	58.0	212.0	541.2	751.2	60.3	5.9	205.0
2865	Cyclic crudes and intermediates -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2869	Industrial organic chemicals, n.e.c. -----	-	12	8	6.2	104.2	3.8	7.7	56.2	196.4	517.1	712.4	(D)	FF	(D)
287	Agricultural chemicals -----	-	23	16	1.5	16.4	1.0	2.0	10.4	106.6	109.4	197.2	6.0	1.4	47.1
2873	Nitrogenous fertilizers -----	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2875	Fertilizers, mixing only -----	-	12	9	0.4	3.5	0.3	0.5	2.1	14.6	45.1	54.2	1.0	0.3	6.9
2879	Agricultural chemicals, n.e.c. -	-	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	17.6
289	Miscellaneous chemical products -----	-	51	15	2.6	36.1	1.5	2.9	18.2	85.1	102.5	187.3	2.9	4.1	71.1
2891	Adhesives and sealants -----	-	10	3	0.2	1.8	0.1	0.3	1.0	8.7	17.4	26.0	0.3	BB	(D)
2892	Explosives -----	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2899	Chemical preparations, n.e.c. -----	-	24	8	0.7	8.8	0.5	0.9	4.7	26.3	63.7	89.8	2.4	CC	(D)
29	Petroleum and coal products -----	-	41	12	1.0	13.1	0.8	1.4	8.4	104.1	269.8	371.0	3.2	0.3	18.3
2911	Petroleum refining -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
295	Paving and roofing materials ---	-	33	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2951	Paving mixtures and blocks ---	-	27	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	8.0
2952	Asphalt felts and coatings ---	-	6	4	0.3	3.0	0.2	0.4	2.3	7.8	19.0	26.6	0.5	0.3	5.0
30	Rubber and miscellaneous plastics products -----	-	191	105	21.6	262.3	17.7	36.0	196.8	681.2	780.9	1 439.6	47.7	16.1	414.2
3011	Tires and inner tubes -----	-	11	8	8.3	129.5	6.8	14.1	101.9	326.3	357.6	668.3	18.8	5.5	179.6
3031	Reclaimed rubber -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3041	Rubber and plastics hose and belting -----	-	7	5	1.4	13.0	1.2	2.4	9.8	30.4	41.4	70.5	3.6	CC	(D)
3069	Fabricated rubber products, n.e.c. -----	-	26	18	3.5	38.2	2.9	6.1	27.6	85.2	173.2	259.0	4.6	2.1	32.1
3079	Miscellaneous plastics products -----	-	144	72	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.9	178.7
31	Leather and leather products -----	-	92	68	17.7	126.7	15.7	29.3	100.1	307.3	265.3	562.9	7.1	19.4	217.3
3111	Leather tanning and finishing --	-	11	7	1.0	9.1	0.8	1.6	6.2	30.4	41.0	70.4	(D)	0.9	14.0
314	Footwear, except rubber -----	-	39	38	13.4	91.8	12.3	22.7	78.4	224.1	180.5	398.4	(D)	15.8	178.8
3142	House slippers -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3143	Men's footwear, except athletic -----	-	20	19	7.5	53.5	7.0	13.2	45.2	123.7	115.0	234.7	(D)	FF	(D)
3144	Women's footwear, except athletic -----	-	7	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.8	33.8
3149	Footwear, except rubber, n.e.c. -----	-	10	10	2.9	19.2	2.7	4.7	16.9	49.3	33.1	80.5	0.9	FF	(D)
3151	Leather gloves and mittens ---	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3161	Luggage -----	-	9	5	1.6	13.1	1.1	2.2	6.1	27.0	18.2	44.3	(D)	CC	(D)
317	Handbags and other personal leather goods -----	E3	11	4	0.7	5.2	0.6	1.4	4.3	8.3	5.7	13.6	(D)	0.8	6.9
3171	Women's handbags and purses -----	E3	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3199	Leather goods, n.e.c. -----	-	19	12	0.8	6.0	0.6	1.1	3.8	14.3	16.4	29.8	(D)	1.0	12.5

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
32	Stone, clay, and glass products -----	-	342	115	14.8	198.7	12.1	24.2	150.4	446.6	380.1	825.1	63.1	16.9	358.0
3211	Flat glass -----	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
322	Glass and glassware, pressed or blown -----	-	9	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	39.1
3221	Glass containers -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3229	Pressed and blown glass, n.e.c. -----	-	8	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3231	Products of purchased glass ---	-	15	5	0.3	3.1	0.2	0.5	2.3	3.1	9.2	15.5	0.9	CC	(D)
3241	Cement, hydraulic -----	-	11	6	0.9	13.9	0.7	1.4	11.4	29.6	35.2	66.2	(D)	0.8	30.3
325	Structural clay products -----	-	8	8	0.9	8.1	0.8	1.5	6.7	23.2	14.4	37.9	1.5	1.0	17.3
3251	Brick and structural clay tile -----	-	7	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3253	Ceramic wall and floor tile ---	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
326	Pottery and related products ---	E1	18	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	17.7
3264	Porcelain electrical supplies ---	-	5	4	0.6	4.6	0.5	0.9	3.6	9.1	4.9	13.8	(D)	EE	(D)
3269	Pottery products, n.e.c. -----	E4	13	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
327	Concrete, gypsum, and plaster products -----	E1	224	70	3.8	39.2	2.8	5.2	23.8	89.6	105.8	194.5	11.6	4.0	67.8
3271	Concrete block and brick ---	E1	34	12	0.6	6.0	0.4	0.7	3.2	12.2	15.3	27.4	1.6	CC	(D)
3272	Concrete products, n.e.c. ---	E1	92	23	1.6	16.2	1.2	2.3	10.0	31.5	30.5	61.5	3.4	1.5	20.5
3273	Ready-mixed concrete -----	E1	96	34	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	33.8
3281	Cut stone and stone products -	-	20	4	0.2	2.2	0.2	0.4	1.6	4.3	3.4	7.7	0.2	0.4	3.4
329	Miscellaneous nonmetallic mineral products -----	-	34	9	1.8	18.2	1.5	2.9	11.5	49.8	32.2	81.7	4.9	2.1	30.2
3292	Asbestos products -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3293	Gaskets, packing, and sealing devices -----	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3295	Minerals, ground or treated --	-	10	3	0.2	1.8	0.1	0.3	1.2	7.8	3.1	10.7	(D)	(NA)	(NA)
33	Primary metal industries -----	-	118	68	17.4	255.2	14.5	30.0	202.3	525.3	1 268.7	1 731.8	72.9	17.1	270.5
331	Blast furnace and basic steel products -----	-	16	13	2.4	32.1	2.0	4.0	23.2	67.5	156.1	211.5	6.3	3.1	43.2
3312	Blast furnaces and steel mills -----	-	6	5	0.8	11.9	0.7	1.3	8.7	25.1	37.0	62.1	(D)	EE	(D)
3313	Electrometallurgical products -----	-	3	3	0.7	9.6	0.6	1.2	7.5	19.2	55.0	65.2	(D)	0.7	12.8
3315	Steel wire and related products -----	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.1
3317	Steel pipe and tubes -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
332	Iron and steel foundries -----	-	35	21	6.0	71.9	5.1	10.5	57.6	116.9	128.2	246.2	12.9	5.0	66.9
3321	Gray iron foundries -----	-	28	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3322	Malleable iron foundries -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3325	Steel foundries, n.e.c. -----	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
333	Primary nonferrous metals -----	-	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3334	Primary aluminum -----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3341	Secondary nonferrous metals --	-	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
335	Nonferrous rolling and drawing -----	-	13	11	5.4	94.3	4.6	9.6	78.4	157.6	702.5	811.1	(D)	5.8	79.3
3351	Copper rolling and drawing -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3353	Aluminum sheet, plate, and foil -----	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3354	Aluminum extruded products -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3355	Aluminum rolling and drawing, n.e.c. -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3356	Nonferrous rolling and drawing, n.e.c. -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3357	Nonferrous wire drawing and insulating -----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
336	Nonferrous foundries -----	-	27	11	0.9	9.0	0.8	1.5	6.7	17.6	20.3	37.7	1.9	CC	(D)
3361	Aluminum foundries -----	-	15	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3369	Nonferrous foundries, n.e.c. -	-	8	5	0.5	4.7	0.4	0.6	3.4	9.7	12.7	22.3	1.1	AA	(D)
339	Miscellaneous primary metal products -----	-	16	5	0.4	5.7	0.3	0.7	3.8	13.1	16.4	29.2	1.0	0.3	8.1
3399	Primary metal products, n.e.c. -----	-	10	3	0.3	4.4	0.2	0.5	2.9	10.1	15.4	25.3	0.5	0.2	6.0
34	Fabricated metal products -----	-	522	224	33.4	387.3	26.4	51.1	274.3	833.0	889.6	1 688.5	50.8	30.6	446.0
341	Metal cans and shipping containers -----	-	16	7	0.7	9.9	0.5	1.2	7.3	38.2	69.1	106.4	1.3	0.5	18.3
3411	Metal cans -----	-	11	5	0.5	7.8	0.4	0.9	6.1	34.6	63.5	97.7	(D)	0.4	16.9
3412	Metal barrels, drums, and pails -----	E1	5	2	0.2	2.1	0.1	0.3	1.3	3.6	5.6	8.7	(D)	(NA)	(NA)
342	Cutlery, hand tools, and hardware -----	-	20	12	3.4	37.1	2.6	5.2	24.3	81.7	42.0	122.9	7.4	3.0	48.2
3423	Hand and edge tools, n.e.c. -	-	9	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3429	Hardware, n.e.c. -----	-	9	5	2.9	32.0	2.2	4.3	20.8	68.2	33.9	101.8	(D)	2.8	46.4

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972	
			All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
34	Fabricated metal products—Con.														
343	Plumbing and heating, except electric -----	-	12	7	1.2	12.0	1.0	1.7	8.9	29.7	36.0	64.4	1.8	1.8	21.4
3431	Metal sanitary ware -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3433	Heating equipment, except electric -----	E1	8	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	14.0
344	Fabricated structural metal products -----	-	252	100	13.6	178.0	10.3	19.3	120.9	322.2	414.8	730.0	16.5	12.8	200.5
3441	Fabricated structural metal --	-	72	30	2.6	31.3	2.0	3.7	20.6	65.7	84.1	146.9	3.3	1.9	26.4
3442	Metal doors, sash, and trim --	-	37	15	2.1	20.6	1.6	2.8	13.4	46.2	61.0	105.9	2.3	1.3	14.4
3443	Fabricated plate work (boiler shops) -----	-	30	20	6.8	100.5	5.2	9.7	71.0	158.2	176.9	330.2	6.7	6.9	122.8
3444	Sheet metal work -----	-	60	18	1.0	12.0	0.7	1.4	7.2	22.6	42.9	67.8	2.4	1.2	18.1
3446	Architectural metal work -----	-	30	8	0.5	6.0	0.4	0.7	3.4	13.1	13.4	25.9	0.8	0.6	8.2
3448	Prefabricated metal buildings -----	E1	12	5	0.5	5.6	0.4	0.7	4.2	13.8	19.0	32.6	0.5	0.4	4.9
3449	Miscellaneous metal work ---	E1	11	4	0.2	2.0	0.1	0.2	1.1	2.5	17.5	20.6	0.5	0.4	5.7
345	Screw machine products, bolts, etc. -----	-	13	9	0.7	7.4	0.7	1.4	6.0	18.1	13.3	31.0	0.3	0.8	12.4
3451	Screw machine products -----	-	5	5	0.3	3.1	0.3	0.6	2.6	6.0	3.1	9.0	(D)	0.4	5.0
3452	Bolts, nuts, rivets, and washers -----	-	8	4	0.5	4.4	0.4	0.8	3.4	12.1	10.2	22.0	(D)	0.4	7.5
346	Metal forgings and stampings --	-	43	23	2.5	26.4	2.2	4.4	20.3	68.3	88.6	154.9	6.5	2.0	26.2
3462	Iron and steel forgings -----	-	7	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3465	Automotive stampings -----	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3469	Metal stampings, n.e.c. -----	-	32	15	1.8	16.9	1.6	3.1	13.1	45.2	65.3	109.8	5.0	1.3	15.7
347	Metal services, n.e.c. -----	-	61	20	1.8	16.3	1.6	3.3	13.5	27.5	22.3	49.8	3.1	0.9	9.3
3471	Plating and polishing -----	-	46	16	1.6	14.1	1.4	3.0	11.9	24.2	19.3	43.5	2.8	0.8	8.5
3479	Metal coating and allied services -----	E1	15	4	0.2	2.2	0.2	0.4	1.6	3.2	3.0	6.2	0.2	(NA)	(NA)
348	Ordinance and accessories, n.e.c. -----	-	8	5	3.7	40.0	2.8	5.2	28.1	94.8	71.6	160.8	2.2	3.6	33.8
3483	Ammunition, except for small arms, n.e.c. -----	-	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3489	Ordinance and accessories, n.e.c. -----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	97	41	5.7	60.2	4.7	9.4	45.0	152.6	131.8	268.4	11.8	5.3	77.8
3493	Steel springs, except wire ---	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3494	Valves and pipe fittings -----	-	10	4	1.5	19.4	1.2	2.4	14.6	63.4	41.7	94.4	3.7	1.9	38.9
3495	Wire springs -----	-	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3496	Miscellaneous fabricated wire products -----	-	18	13	1.3	10.2	1.0	2.0	7.2	26.5	23.0	47.5	(D)	1.0	12.9
3497	Metal foil and leaf -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3498	Fabricated pipe and fittings --	-	8	6	0.6	6.0	0.5	0.9	4.2	14.7	15.4	29.4	2.1	AA	(D)
3499	Fabricated metal products, n.e.c. -----	-	50	12	1.3	12.7	1.1	2.2	9.6	25.0	27.1	50.8	2.3	CC	(D)
35	Machinery, except electrical -----	-	587	162	29.7	356.1	23.0	44.8	244.8	1 118.7	933.4	2 035.5	40.8	25.9	518.1
351	Engines and turbines -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3519	Internal combustion engines, n.e.c. -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
352	Farm and garden machinery ---	-	22	6	2.9	50.5	2.2	4.0	35.9	84.5	85.3	171.5	(D)	3.1	62.6
3523	Farm machinery and equipment -----	-	21	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
353	Construction and related machinery -----	-	36	19	2.3	27.4	1.5	3.1	17.3	61.6	68.2	128.4	1.8	1.3	24.8
3531	Construction machinery -----	-	11	7	1.2	13.1	0.7	1.4	8.1	27.5	34.5	61.3	1.0	0.5	10.2
3534	Elevators and moving stairways -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3535	Conveyors and conveying equipment -----	E2	11	5	0.3	3.1	0.2	0.3	1.5	5.9	8.4	14.3	0.2	0.3	4.5
3536	Hoists, cranes, and monorails -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3537	Industrial trucks and tractors -	E3	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
354	Metalworking machinery -----	E1	143	28	2.8	33.4	2.3	4.6	25.0	69.8	49.3	119.3	4.8	EE	(D)
3544	Special dies, tools, jigs, and fixtures -----	E2	108	18	1.1	15.5	1.0	2.0	11.8	22.4	10.3	32.1	2.7	0.9	13.8
3545	Machine tool accessories ---	-	12	6	0.5	6.0	0.4	0.9	4.9	10.5	8.7	18.3	1.0	BB	(D)
3546	Power driven hand tools -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3549	Metalworking machinery, n.e.c. -----	-	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
355	Special industry machinery ---	-	42	21	3.1	35.2	2.3	4.5	23.7	79.2	96.4	176.7	6.4	2.2	38.1
3552	Textile machinery -----	-	12	9	0.8	10.1	0.6	1.2	6.9	16.4	15.9	34.1	(D)	0.9	12.8
3553	Woodworking machinery -----	-	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3559	Special industry machinery, n.e.c. -----	-	16	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
35	Machinery, except electrical—Con.														
356	General industrial machinery ---	-	64	29	3.9	45.5	2.7	5.4	28.4	109.6	91.1	199.7	6.4	2.9	45.3
3561	Pumps and pumping equipment ---	-	9	4	0.7	7.3	0.4	0.8	4.1	22.1	14.4	36.4	2.0	BB	(D)
3562	Ball and roller bearings ---	-	5	4	1.3	15.6	1.1	2.4	12.4	39.9	37.5	76.2	2.6	BB	(D)
3564	Blowers and fans ---	-	11	6	0.7	9.4	0.4	0.7	3.6	19.8	20.4	40.3	0.7	0.4	6.2
3568	Power transmission equipment, n.e.c. ---	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3569	General industrial machinery, n.e.c. ---	-	21	10	0.6	6.0	0.4	0.7	3.4	12.0	7.9	20.0	0.9	0.7	9.9
357	Office and computing machines ---	-	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3573	Electronic computing equipment ---	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
358	Refrigeration and service machinery ---	-	42	26	9.6	95.3	7.7	14.8	70.1	341.7	409.1	747.6	16.9	8.1	156.4
3585	Refrigeration and heating equipment ---	-	26	19	8.6	85.3	6.9	13.2	63.3	319.1	389.2	706.1	16.3	7.1	137.4
3589	Service industry machinery, n.e.c. ---	-	13	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical ---	E1	230	29	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.5	47.8
3592	Carburetors, pistons, rings, and valves ---	-	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3599	Machinery, except electrical, n.e.c. ---	E2	225	27	2.2	27.7	1.8	3.6	19.7	50.1	25.9	74.9	4.0	EE	(D)
36	Electric and electronic equipment -	-	240	104	38.1	382.8	29.0	55.1	247.2	954.0	1 157.9	2 095.2	66.7	34.7	692.2
361	Electric distributing equipment -	-	13	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3613	Switchgear and switchboard apparatus ---	-	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
362	Electrical industrial apparatus -	-	22	17	7.1	73.5	5.9	11.4	55.8	187.2	238.2	428.2	19.0	6.0	85.0
3621	Motors and generators ---	-	13	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3622	Industrial controls ---	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3624	Carbon and graphite products ---	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
363	Household appliances ---	-	36	30	12.2	116.1	9.6	18.9	76.0	285.5	394.1	685.2	17.0	11.2	189.9
3631	Household cooking equipment ---	-	14	13	5.1	53.6	3.8	7.3	33.2	107.7	197.5	309.0	7.5	FF	(D)
3634	Electric housewares and fans ---	-	12	11	4.0	30.7	3.4	6.3	21.2	97.4	93.0	193.3	4.9	FF	(D)
3639	Household appliances, n.e.c. ---	-	7	6	3.1	31.6	2.5	5.3	21.4	79.9	103.4	182.3	(D)	EE	(D)
364	Electric lighting and wiring equipment ---	-	25	17	3.5	34.7	2.9	5.3	26.0	123.5	78.5	200.1	5.9	3.6	77.3
3641	Electric lamps ---	-	3	3	2.0	19.5	1.7	3.1	15.9	72.5	26.9	99.7	2.0	EE	(D)
3644	Noncurrent-carrying wiring devices ---	-	4	3	0.5	6.1	0.4	0.7	4.3	17.3	14.7	32.1	(D)	0.6	10.4
3645	Residential lighting fixtures ---	-	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3646	Commercial lighting fixtures ---	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
365	Radio and TV receiving equipment ---	-	72	10	4.4	43.1	3.0	5.1	24.5	139.2	258.6	380.7	(D)	FF	(D)
3651	Radio and TV receiving sets ---	-	11	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3652	Phonograph records and prerecorded tape ---	-	61	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
366	Communication equipment ---	-	18	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.8	95.4
3661	Telephone and telegraph apparatus ---	-	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3662	Radio and TV communication equipment ---	E1	14	3	0.4	4.0	0.3	0.4	1.9	6.6	5.1	11.1	0.1	EE	(D)
367	Electronic components and accessories ---	-	28	8	2.7	24.4	2.2	4.1	17.3	42.8	53.2	94.5	3.6	1.1	9.6
3674	Semiconductors and related devices ---	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3675	Electronic capacitors ---	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3677	Electronic coils and transformers ---	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3679	Electronic components, n.e.c. ---	-	21	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies ---	-	26	12	2.7	25.0	2.4	4.6	19.8	55.2	59.6	113.6	7.9	1.5	23.1
3691	Storage batteries ---	-	7	5	0.4	5.3	0.4	0.7	4.5	15.8	19.6	33.6	(D)	0.3	7.5
3692	Primary batteries, dry and wet ---	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3694	Engine electrical equipment ---	-	7	3	0.7	5.0	0.6	1.1	3.8	7.0	5.5	13.2	(D)	BB	(D)
3699	Electrical equipment and supplies, n.e.c. ---	-	11	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972		
			E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
37	Transportation equipment -----	-		198	81	25.4	283.6	20.9	40.1	213.4	686.6	847.8	1 509.2	40.6	21.9	379.8
371	Motor vehicles and equipment -	-		88	47	16.6	180.7	13.5	26.6	137.8	476.5	570.0	1 046.2	(D)	12.1	232.4
3711	Motor vehicles and car	-														
	bodies -----	-		2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3713	Truck and bus bodies -----	-		18	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3714	Motor vehicle parts and	-														
	accessories -----	-		57	32	12.9	137.8	10.7	21.3	107.1	370.4	327.5	695.7	20.8	10.2	199.2
3715	Truck trailers -----	-		9	6	1.0	10.4	0.8	1.6	7.4	18.1	42.3	60.2	2.8	0.8	12.5
3716	Motor homes produced on	-														
	purchased chassis -----	-		2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
372	Aircraft and parts -----	-		8	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3728	Aircraft equipment, n.e.c. ---	-		5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
373	Ship and boat building and	-														
	repairing -----	-		61	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	32.6
3731	Ship building and repairing --	-		5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3732	Boat building and repairing --	E1		56	17	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3743	Railroad equipment -----	-		5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3751	Motorcycles, bicycles, and	-														
	parts -----	-		8	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
379	Miscellaneous transportation	-														
	equipment -----	E2		27	5	0.4	3.8	0.4	0.6	2.7	8.2	11.0	19.2	(D)	0.9	10.0
3799	Transportation equipment,	-														
	n.e.c. -----	E1		16	3	0.3	2.9	0.3	0.4	1.9	6.4	6.1	12.4	(D)	AA	(D)
38	Instruments and related products -----	-		74	18	3.8	36.2	2.7	5.2	21.9	89.6	58.0	144.4	3.2	2.9	49.0
3811	Engineering and scientific	-														
	instruments -----	-		4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
382	Measuring and controlling	-														
	devices -----	-		16	4	1.0	7.6	0.7	1.2	5.6	19.2	18.4	37.9	1.0	CC	(D)
3822	Environmental controls -----	-		3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3829	Measuring and controlling	-														
	devices, n.e.c. -----	-		6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	4.4
384	Medical instruments and	-														
	supplies -----	-		35	8	1.0	10.8	0.7	1.3	6.1	35.6	16.8	49.3	1.3	1.2	22.0
3841	Surgical and medical	-														
	instruments -----	E1		7	2	0.2	2.0	0.2	0.3	1.2	4.6	2.6	6.9	(D)	CC	(D)
3842	Surgical appliances and	-														
	supplies -----	-		21	6	0.8	8.5	0.5	1.0	4.7	30.4	13.8	41.4	1.0	CC	(D)
3873	Watches, clocks, and	-														
	watchcases -----	-		6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
39	Miscellaneous manufacturing industries -----	-		265	77	9.9	87.0	7.6	14.6	57.0	203.0	189.0	388.5	12.1	10.2	135.2
3931	Musical instruments -----	-		9	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
394	Toys and sporting goods -----	-		47	18	1.8	14.4	1.6	2.8	11.2	26.8	33.1	60.4	(D)	2.1	29.3
3944	Games, toys, and children's	-														
	vehicles -----	-		13	5	0.5	3.1	0.4	0.7	2.1	8.5	7.2	15.5	0.1	BB	(D)
3949	Sporting and athletic goods,	-														
	n.e.c. -----	-		31	12	1.3	11.1	1.1	2.1	8.9	17.9	25.4	44.0	(D)	1.6	23.9
395	Pens, pencils, office and art	-														
	supplies -----	-		21	12	2.4	19.5	1.8	3.7	13.2	48.0	58.8	105.6	(D)	2.4	31.8
3951	Pens and mechanical	-														
	pencils -----	-		3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3952	Lead pencils and art goods --	-		9	8	1.6	12.9	1.2	2.5	8.2	29.6	45.7	74.3	3.2	EE	(D)
396	Costume jewelry and notions --	-		9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3964	Needles, pins, and	-														
	fasteners -----	-		3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
399	Miscellaneous manufactures ---	-		167	40	4.3	41.1	3.0	5.8	22.8	99.4	73.4	171.0	(D)	4.2	52.8
3991	Brooms and brushes -----	-		9	4	0.3	1.9	0.2	0.4	1.3	5.8	6.0	11.6	0.2	0.6	7.1
3993	Signs and advertising	-														
	displays -----	-		87	19	2.2	21.3	1.5	2.8	11.1	41.9	32.8	74.3	2.1	2.1	32.0
3995	Burial caskets -----	-		21	9	1.0	10.0	0.7	1.6	6.8	34.1	21.4	55.1	(D)	1.1	9.5
3999	Manufacturing industries,	-														
	n.e.c. -----	E1		50	8	0.8	7.9	0.6	1.0	3.7	17.7	13.1	30.0	1.4	0.4	4.3
--	Administrative and auxiliary -----	-		127	77	8.8	119.8	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Chattanooga, Tenn.-Ga., SMSA	-	671	287	53.9	612.9	41.3	80.3	409.9	1 290.0	2 032.3	3 305.2	89.0	56.8	927.7
20	Food and kindred products --	-	49	29	5.0	56.2	3.2	5.9	27.9	158.8	510.4	676.3	14.2	4.1	87.6
201	Meat products -----	-	8	2	0.6	4.7	0.5	0.9	3.5	7.2	34.7	42.4	(D)	(NA)	(NA)
204	Grain mill products -----	E1	6	5	0.5	5.3	0.4	0.8	3.5	43.4	113.5	159.6	1.1	0.5	26.1
205	Bakery products -----	-	8	5	2.0	23.8	1.3	2.3	10.4	45.1	44.0	89.2	(D)	1.4	24.8
208	Beverages -----	-	8	7	0.6	6.4	0.2	0.3	1.3	18.0	28.8	46.9	2.8	(NA)	(NA)
22	Textile mill products -----	-	75	50	12.4	104.1	10.8	21.5	82.6	220.9	496.6	716.5	13.0	14.0	182.3
225	Knitting mills -----	-	19	12	2.8	20.4	2.3	4.3	14.9	40.3	89.5	129.7	1.2	3.0	29.2
2269	Finishing plants, n.e.c. --	-	8	5	1.3	10.5	1.2	2.4	8.6	24.8	69.2	95.5	(D)	1.6	22.4
227	Floor covering mills -----	-	14	10	2.6	22.0	2.1	4.2	16.5	63.8	199.0	259.4	2.5	3.8	71.1
2272	Tufted carpets and rugs -----	-	14	10	2.6	22.0	2.1	4.2	16.5	63.8	199.0	259.4	2.5	3.8	71.1
228	Yarn and thread mills -----	-	18	17	4.5	39.8	4.1	8.7	34.4	75.7	104.8	179.5	6.0	3.8	42.9
2281	Yarn mills, except wool -----	-	12	12	3.1	27.6	2.9	6.1	24.7	57.8	77.5	134.3	4.3	(NA)	(NA)
23	Apparel and other textile products -----	E1	35	15	1.9	11.6	1.6	2.9	8.8	22.8	17.6	40.3	0.8	1.8	12.5
232	Men's and boys' furnishings -----	E3	4	4	0.8	4.1	0.7	1.2	3.2	6.5	4.6	11.0	0.1	0.8	3.9
233	Women's and misses' outerwear -----	-	12	4	0.4	2.3	0.4	0.6	1.8	4.9	1.1	6.2	(Z)	0.4	2.0
239	Miscellaneous fabricated textile products -----	-	15	4	0.4	4.1	0.4	0.9	3.1	9.8	11.5	21.1	0.6	0.4	5.5
24	Lumber and wood products -----	E1	54	9	0.7	6.0	0.6	1.1	4.5	12.7	17.1	29.1	1.1	0.8	10.6
25	Furniture and fixtures -----	E5	24	10	0.6	5.1	0.5	0.9	3.5	9.6	9.3	19.1	0.4	0.9	8.1
251	Household furniture -----	E3	16	8	0.4	2.5	0.3	0.5	1.7	4.4	4.9	9.3	0.1	0.6	5.3
26	Paper and allied products -----	-	18	12	1.1	12.5	0.9	1.7	9.4	27.5	50.4	77.6	8.3	1.2	21.9
265	Paperboard containers and boxes -----	-	10	6	0.4	4.8	0.3	0.6	3.2	10.9	16.4	26.9	1.1	0.6	7.9
27	Printing and publishing -----	-	72	15	1.4	15.6	0.8	1.4	7.9	27.7	15.9	43.5	1.7	1.4	19.3
275	Commercial printing -----	-	47	10	0.6	7.1	0.5	0.9	4.7	12.2	8.8	20.9	1.0	0.5	7.9
2752	Commercial printing, lithographic -----	-	28	9	0.5	5.8	0.4	0.7	3.7	9.9	7.3	17.1	0.7	(NA)	(NA)
28	Chemicals and allied products -----	-	39	19	6.2	98.6	4.3	8.3	56.7	243.4	270.4	516.8	16.4	7.7	202.1
281	Industrial inorganic chemicals -----	-	7	5	0.3	4.3	0.2	0.4	2.3	23.6	19.4	42.7	4.3	(NA)	(NA)
289	Miscellaneous chemical products -----	-	6	3	0.4	5.9	0.1	0.2	1.1	12.3	13.2	25.2	0.3	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	12	7	0.6	6.7	0.4	0.9	4.2	22.0	51.6	74.5	1.0	0.5	15.3
31	Leather and leather products -----	-	12	9	1.1	7.2	0.8	1.4	4.6	19.7	18.1	37.6	0.3	1.2	16.0
3199	Leather goods, n.e.c. -----	-	8	6	0.4	2.9	0.3	0.5	1.8	7.3	8.4	15.5	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	25	13	1.6	19.7	1.4	2.7	15.9	48.9	39.2	87.6	4.8	2.9	51.6
327	Concrete, gypsum, and plaster products -----	-	11	6	0.3	3.0	0.2	0.4	2.0	4.2	8.4	12.4	0.7	0.4	7.8
33	Primary metal industries -----	-	23	13	5.2	65.3	4.3	8.9	49.5	103.7	161.7	264.6	9.7	4.8	67.2
332	Iron and steel foundries -----	-	10	7	4.1	52.0	3.5	7.3	41.9	75.5	102.0	178.5	7.9	3.6	51.7
34	Fabricated metal products -----	-	66	28	8.1	113.3	6.3	12.2	83.3	195.4	213.6	389.0	8.1	8.7	138.5
344	Fabricated structural metal products -----	-	32	12	5.5	83.3	4.2	8.1	61.0	115.7	151.8	253.5	4.9	6.1	100.9
349	Miscellaneous fabricated metal products -----	-	14	6	1.5	18.5	1.1	2.3	13.9	44.1	31.6	70.3	1.1	1.6	28.5
35	Machinery, except electrical -----	-	78	25	3.5	42.1	2.5	5.2	28.4	84.3	81.7	165.5	5.2	2.5	42.1
353	Construction and related machinery -----	-	9	6	1.4	16.4	0.9	1.8	10.8	36.6	41.8	76.7	1.1	(NA)	(NA)
355	Special industry machinery -----	-	15	10	0.9	11.6	0.7	1.4	7.5	18.5	18.7	38.9	2.7	1.0	14.7
36	Electric and electronic equipment -----	-	17	10	2.7	29.0	2.0	3.9	17.7	73.3	56.7	127.9	3.1	1.7	24.2
363	Household appliances -----	-	6	5	1.4	15.6	1.1	2.1	8.7	48.5	45.4	92.8	2.7	1.3	19.0
37	Transportation equipment -----	E2	13	3	0.3	2.7	0.2	0.3	1.7	6.7	6.8	13.3	0.2	1.0	18.0
39	Miscellaneous manufacturing industries -----	-	19	5	0.4	3.3	0.3	0.6	2.4	8.0	7.2	14.2	0.4	0.5	6.5
-	Administrative and auxiliary -----	-	30	13	0.8	12.2	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Clarksville-Hopkinsville, Tenn.-Ky., SMSA -----	-	117	44	9.4	89.3	7.1	13.7	58.3	233.3	279.8	513.8	12.9	10.0	134.7
20	Food and kindred products --	E7	13	4	0.8	9.2	0.5	1.1	5.9	13.3	57.0	71.4	1.0	(NA)	(NA)
23	Apparel and other textile products -----	-	9	5	1.3	8.0	1.2	2.1	6.6	11.8	8.1	19.8	0.3	(NA)	(NA)
2328	Men's and boys' work clothing -----	-	6	5	1.3	7.9	1.2	2.1	6.6	11.7	8.0	19.6	(D)	(NA)	(NA)
24	Lumber and wood products --	-	15	5	0.5	4.2	0.4	0.8	3.3	10.0	14.4	24.3	0.6	(NA)	(NA)
242	Sawmills and planing mills --	-	6	3	0.3	2.1	0.3	0.5	1.9	5.8	6.6	12.4	(D)	(NA)	(NA)
2421	Sawmills and planing mills, general -----	-	6	3	0.3	2.1	0.3	0.5	1.9	5.8	6.6	12.4	(D)	(NA)	(NA)
27	Printing and publishing -----	-	13	3	0.6	4.8	0.5	0.9	3.1	13.3	4.2	17.4	(D)	(NA)	(NA)
31	Leather and leather products -----	-	3	3	1.3	9.7	1.2	2.1	8.3	13.1	18.3	35.4	(D)	(NA)	(NA)
314	Footwear, except rubber --	-	3	3	1.3	9.7	1.2	2.1	8.3	13.1	18.3	35.4	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	11	7	0.5	4.7	0.4	0.8	3.1	10.5	7.5	17.6	0.8	(NA)	(NA)
	Johnson City-Kingsport-Bristol, Tenn.-Va., SMSA -----	-	429	182	54.5	655.6	40.0	77.4	407.6	1 505.0	1 880.0	3 362.5	102.0	49.3	832.0
20	Food and kindred products --	-	46	19	2.8	32.2	1.7	3.7	15.8	78.4	166.7	245.1	5.1	(NA)	(NA)
205	Bakery products -----	-	7	6	1.0	12.6	0.6	1.3	5.1	30.0	23.7	53.7	(D)	(NA)	(NA)
2051	Bread, cake, and related products -----	-	7	6	1.0	12.6	0.6	1.3	5.1	30.0	23.7	53.7	(D)	(NA)	(NA)
208	Beverages -----	-	5	3	0.3	3.3	0.1	0.2	0.7	9.0	10.6	19.6	(D)	(NA)	(NA)
2086	Bottled and canned soft drinks -----	-	5	3	0.3	3.3	0.1	0.2	0.7	9.0	10.6	19.6	(D)	(NA)	(NA)
22	Textile mill products -----	-	12	11	3.7	34.1	3.4	6.9	29.6	63.8	105.8	165.3	(D)	(NA)	(NA)
23	Apparel and other textile products -----	-	32	26	4.6	27.6	4.2	7.0	22.6	61.1	41.3	100.4	1.8	(NA)	(NA)
232	Men's and boys' furnishings -----	-	11	9	2.2	13.6	2.0	3.4	11.1	30.7	24.0	53.3	(D)	(NA)	(NA)
233	Women's and misses' outerwear -----	-	10	9	1.0	5.7	0.9	1.5	4.6	16.4	8.6	24.8	(D)	(NA)	(NA)
234	Women's and children's undergarments -----	-	5	5	1.1	7.0	1.0	1.7	5.7	11.9	7.2	18.6	(D)	(NA)	(NA)
2341	Women's and children's underwear -----	-	5	5	1.1	7.0	1.0	1.7	5.7	11.9	7.2	18.6	(D)	(NA)	(NA)
24	Lumber and wood products --	E1	65	9	1.1	8.0	0.9	1.7	6.1	14.8	20.6	35.4	0.8	(NA)	(NA)
242	Sawmills and planing mills --	-	31	4	0.7	5.0	0.6	1.2	4.0	8.4	8.8	17.2	0.5	(NA)	(NA)
2426	Hardwood dimension and flooring -----	-	5	4	0.6	4.5	0.6	1.1	3.6	7.2	7.3	14.4	(D)	(NA)	(NA)
25	Furniture and fixtures -----	-	11	6	1.5	10.6	1.3	2.4	8.2	19.2	16.0	35.1	1.5	(NA)	(NA)
2511	Wood household furniture -----	-	3	3	0.8	5.1	0.7	1.4	4.1	10.8	8.7	19.4	(D)	(NA)	(NA)
27	Printing and publishing -----	-	60	13	4.5	48.5	3.4	6.3	33.6	97.4	62.2	161.2	2.7	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	12	6	0.8	7.9	0.7	1.3	5.3	20.1	47.0	68.2	0.8	(NA)	(NA)
3079	Miscellaneous plastics products -----	-	9	3	0.4	3.2	0.3	0.6	2.1	7.7	7.4	15.1	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	33	14	2.4	25.9	2.0	4.0	20.7	57.0	46.0	105.1	6.4	(NA)	(NA)
327	Concrete, gypsum, and plaster products -----	-	23	8	0.4	4.3	0.3	0.5	2.8	11.2	11.9	23.4	(D)	(NA)	(NA)
33	Primary metal industries ---	-	13	7	1.2	14.0	1.0	2.0	9.8	31.8	47.5	79.8	2.3	(NA)	(NA)
332	Iron and steel foundries ---	E1	5	3	0.3	3.2	0.3	0.5	2.4	4.9	3.1	8.0	0.3	(NA)	(NA)
34	Fabricated metal products ---	-	36	19	4.7	60.0	3.5	6.6	40.1	134.3	170.5	298.8	7.0	(NA)	(NA)
342	Cutlery, hand tools, and hardware -----	-	6	6	0.6	5.6	0.5	1.0	4.2	13.9	8.5	22.4	(D)	(NA)	(NA)
344	Fabricated structural metal products -----	-	15	5	1.4	19.3	0.9	1.6	10.9	28.4	31.2	62.5	0.9	(NA)	(NA)
35	Machinery, except electrical --	-	34	12	3.4	48.1	2.7	5.5	28.4	335.5	158.1	482.9	9.1	(NA)	(NA)
356	General industrial machinery -----	-	3	3	0.9	10.0	0.7	1.4	7.8	32.4	31.9	65.2	1.3	(NA)	(NA)
36	Electric and electronic equipment -----	-	14	9	4.9	53.2	2.8	5.4	23.2	118.7	87.1	205.1	7.2	(NA)	(NA)
363	Household appliances -----	-	4	4	1.6	14.9	1.3	2.6	10.2	43.0	54.6	98.0	(D)	(NA)	(NA)
37	Transportation equipment ---	-	10	4	0.5	6.6	0.4	0.9	4.5	15.5	19.6	34.9	(D)	(NA)	(NA)
--	Administrative and auxiliary --	-	5	4	0.5	6.1	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Knoxville SMSA -----	-	546	192	39.6	475.8	29.9	57.8	319.8	1 174.8	1 487.8	2 609.6	88.1	40.9	722.3
20	Food and kindred products --	-	49	28	3.8	41.0	2.4	5.1	22.5	96.3	289.2	385.5	8.6	3.9	66.5
201	Meat products -----	-	12	5	1.1	10.6	0.9	2.0	7.9	18.7	105.4	124.6	(D)	1.0	15.0
202	Dairy products -----	-	5	4	0.3	3.4	0.1	0.2	0.8	6.9	28.8	35.7	(D)	0.5	7.1
205	Bakery products -----	-	4	4	0.9	9.8	0.4	0.8	3.5	17.1	12.4	29.5	(D)	0.8	9.7
2051	Bread, cake, and related products -----	-	4	4	0.9	9.8	0.4	0.8	3.5	17.1	12.4	29.5	(D)	0.8	9.7
208	Beverages -----	-	9	6	0.5	5.4	0.2	0.5	2.1	16.7	34.7	51.2	(D)	0.4	7.0
2086	Bottled and canned soft drinks -----	-	9	6	0.5	5.4	0.2	0.5	2.1	16.7	34.7	51.2	(D)	0.4	7.0
22	Textile mill products-----	-	16	5	2.6	19.5	2.3	4.4	16.2	34.5	28.5	62.5	(D)	3.2	27.0
23	Apparel and other textile products -----	-	36	25	9.4	74.7	8.4	15.2	61.3	203.5	197.6	396.0	3.6	8.9	105.4
238	Miscellaneous apparel and accessories -----	E3	4	3	0.3	1.8	0.3	0.5	1.5	2.9	2.5	5.2	(D)	(NA)	(NA)
24	Lumber and wood products --	-	31	8	0.6	5.3	0.5	0.9	4.1	9.7	10.4	20.0	2.0	0.5	3.5
242	Sawmills and planing mills -	-	10	2	0.3	2.8	0.3	0.5	2.2	5.5	6.0	11.5	(D)	0.3	2.3
25	Furniture and fixtures -----	-	27	7	0.6	4.3	0.5	0.8	2.8	9.1	14.6	24.0	1.0	0.7	7.0
251	Household furniture -----	-	17	6	0.5	3.9	0.4	0.7	2.5	8.3	13.9	22.5	0.9	0.6	5.0
26	Paper and allied products ---	E1	7	3	0.3	3.3	0.2	0.4	2.5	7.6	10.8	18.3	(D)	0.5	7.4
27	Printing and publishing -----	E1	97	18	1.5	16.1	0.8	1.4	8.4	39.9	17.6	57.5	2.2	1.5	17.9
2711	Newspapers -----	-	10	5	0.7	7.8	0.3	0.5	3.3	21.7	5.6	27.3	0.8	0.9	10.4
30	Rubber and miscellaneous plastics products -----	-	13	9	1.1	11.4	0.9	1.8	8.1	32.6	27.4	59.1	2.2	1.6	40.9
32	Stone, clay, and glass products -----	-	41	14	1.2	13.7	1.0	2.0	10.0	29.5	27.9	57.6	14.1	1.6	25.6
327	Concrete, gypsum, and plaster products -----	E1	22	8	0.6	6.2	0.4	0.9	4.1	11.3	15.2	26.4	(D)	0.7	12.1
34	Fabricated metal products ---	E1	42	16	1.3	16.2	1.0	2.0	11.0	33.5	39.2	72.9	(D)	1.8	33.3
344	Fabricated structural metal products -----	E1	27	11	0.9	11.2	0.7	1.3	7.2	23.3	24.9	48.5	0.6	1.7	31.8
3441	Fabricated structural metal -----	E1	12	5	0.4	5.8	0.3	0.6	3.5	9.4	11.0	20.2	0.2	0.6	9.7
3443	Fabricated plate work (boiler shops) -----	E1	6	4	0.4	4.3	0.3	0.6	3.0	11.4	9.5	21.4	(D)	(NA)	(NA)
35	Machinery, except electrical -	-	57	16	1.6	21.4	1.1	2.1	11.1	41.8	34.3	76.4	1.9	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E1	32	5	0.4	4.7	0.3	0.6	3.4	11.2	5.3	16.4	0.8	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E1	32	5	0.4	4.7	0.3	0.6	3.4	11.2	5.3	16.4	0.8	(NA)	(NA)
36	Electric and electronic equipment -----	E1	15	5	0.8	7.9	0.6	1.1	4.9	16.1	17.8	33.4	(D)	0.5	5.5
37	Transportation equipment ---	-	18	5	2.1	24.8	1.5	3.1	16.7	44.3	35.9	79.4	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries ---	-	35	14	1.2	11.6	0.9	1.5	6.7	22.8	21.6	44.3	0.7	1.2	14.3
399	Miscellaneous manufactures -----	-	26	10	1.0	10.3	0.7	1.3	5.7	19.8	19.3	39.0	0.5	0.9	11.9
3993	Signs and advertising displays -----	-	13	6	0.8	8.3	0.6	1.0	4.8	16.3	15.5	32.0	0.4	0.8	10.2
	Memphis, Tenn.-Ark.-Miss., SMSA -----	-	1 156	458	64.1	780.1	45.4	90.3	484.9	2 159.7	3 442.9	5 608.3	161.0	64.2	1 352.4
20	Food and kindred products --	-	97	67	10.5	141.2	6.5	14.5	84.6	448.7	1 409.5	1 876.2	33.6	9.9	263.8
201	Meat products -----	-	10	7	1.3	18.3	1.0	2.0	12.8	39.1	181.8	220.9	0.8	1.6	31.1
202	Dairy products -----	-	11	9	0.8	9.9	0.4	0.8	4.3	24.0	75.1	98.9	1.6	0.7	15.9
2026	Fluid milk -----	-	5	5	0.6	7.8	0.3	0.6	3.2	20.2	64.4	84.6	1.4	0.4	10.6
204	Grain mill products -----	-	16	10	1.5	24.3	1.1	2.5	18.6	135.2	175.7	307.6	8.7	1.3	54.7
2048	Prepared feeds, n.e.c. ---	-	9	7	0.4	4.6	0.2	0.5	2.1	12.3	64.0	76.6	2.2	(NA)	(NA)
205	Bakery products -----	-	14	11	1.6	22.5	1.0	2.1	13.4	53.7	36.4	90.2	1.5	2.0	34.8
207	Fats and oils -----	-	14	9	1.4	20.2	1.0	2.2	13.1	38.8	695.3	755.1	7.6	1.3	33.5
209	Miscellaneous foods and kindred products -----	-	15	8	1.1	12.4	0.7	1.4	6.7	33.2	44.5	77.7	4.3	0.8	25.4
22	Textile mill products-----	-	10	5	0.5	4.5	0.4	0.8	2.8	8.2	8.1	16.0	0.4	(NA)	(NA)
23	Apparel and other textile products -----	-	33	18	2.3	15.0	2.0	4.0	11.9	36.0	38.7	74.7	0.4	1.9	45.5
239	Miscellaneous fabricated textile products -----	-	21	10	1.0	7.0	0.8	1.7	5.1	14.0	23.0	37.0	0.3	(NA)	(NA)
2391	Curtains and draperies ---	-	5	3	0.3	1.8	0.2	0.5	1.3	2.5	1.1	3.6	(D)	0.3	1.8

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
	Memphis, Tenn.-Ark.-Miss., SMSA—Con.														
24	Lumber and wood products - -	E1	93	36	3.4	28.9	3.0	5.7	21.8	44.5	67.6	114.9	4.0	4.9	51.6
2426	Hardwood dimension and flooring - - - - -	-	14	10	0.9	7.7	0.8	1.8	6.3	14.1	16.1	30.3	(D)	1.8	13.3
243	Millwork, plywood, and structural members - - - - -	E3	39	15	1.6	13.3	1.4	2.5	9.6	23.0	38.3	60.5	0.6	1.8	23.7
2435	Hardwood veneer and plywood - - - - -	-	7	5	0.3	2.9	0.3	0.5	1.9	4.7	15.0	19.9	0.3	0.6	12.2
249	Miscellaneous wood products - - - - -	-	13	4	0.3	1.8	0.3	0.5	1.4	3.5	4.8	8.4	0.2	0.4	4.4
251	Household furniture - - - - -	-	34	13	3.0	25.6	2.5	4.9	15.5	50.7	68.4	117.5	3.0	3.3	43.3
2511	Wood household furniture - - - - -	-	19	4	1.6	13.4	1.4	2.7	8.4	24.9	28.6	53.2	1.5	1.7	20.5
2515	Mattresses and bedsprings - - - - -	-	6	3	0.5	5.1	0.3	0.6	2.1	13.0	16.4	28.9	(D)	(NA)	(NA)
264	Miscellaneous converted paper products - - - - -	-	16	13	3.2	36.5	2.3	4.7	24.0	126.0	155.9	280.4	6.7	3.1	89.3
2641	Paper coating and glazing - - - - -	-	5	5	0.5	4.9	0.5	0.9	3.2	16.9	33.0	49.5	(D)	0.4	7.1
265	Paperboard containers and boxes - - - - -	-	15	13	1.5	19.3	1.1	2.5	13.3	41.0	63.3	104.1	(D)	(NA)	(NA)
2653	Corrugated and solid fiber boxes - - - - -	-	10	8	0.9	12.2	0.6	1.4	7.7	25.3	48.9	73.7	2.0	(NA)	(NA)
27	Printing and publishing - - - - -	-	172	27	3.7	44.4	2.2	4.1	25.2	94.2	56.9	150.6	10.0	3.2	56.9
2751	Commercial printing, letterpress - - - - -	E6	58	4	0.3	3.2	0.3	0.5	2.3	7.1	3.5	10.5	0.4	(NA)	(NA)
2752	Commercial printing, lithographic - - - - -	-	40	8	0.9	10.4	0.7	1.3	6.4	16.0	22.5	37.9	1.1	0.8	11.2
278	Blankbooks and bookbinding - - - - -	-	7	4	0.4	3.6	0.3	0.6	2.7	7.5	4.3	11.8	0.3	(NA)	(NA)
28	Chemicals and allied products - - - - -	-	82	36	5.7	78.1	3.3	7.0	40.2	404.2	397.5	801.1	34.2	5.4	229.8
284	Soaps, cleaners, and toilet goods - - - - -	-	23	10	1.0	11.1	0.6	1.1	5.2	86.9	47.0	133.5	1.6	1.0	40.7
2844	Toilet preparations - - - - -	-	7	5	0.6	6.4	0.4	0.8	3.6	68.9	16.3	84.7	0.7	0.6	29.9
2851	Paints and allied products - - - - -	E2	11	6	0.4	5.5	0.2	0.5	2.2	12.2	29.2	41.3	(D)	(NA)	(NA)
286	Industrial organic chemicals - - - - -	-	5	5	0.8	12.1	0.5	1.1	6.9	74.1	42.4	115.4	7.0	0.8	27.9
2879	Agricultural chemicals, n.e.c. - - - - -	-	5	4	0.4	3.2	0.3	0.5	1.7	11.5	8.0	19.5	(D)	(NA)	(NA)
289	Miscellaneous chemical products - - - - -	-	19	4	0.4	6.3	0.3	0.6	3.2	20.9	59.9	81.0	(D)	0.4	17.2
29	Petroleum and coal products - - - - -	-	18	6	0.7	9.9	0.5	1.0	6.3	95.3	247.5	339.9	3.5	0.8	13.1
30	Rubber and miscellaneous plastics products - - - - -	-	33	13	3.9	58.4	3.3	6.4	46.9	123.1	113.3	225.9	8.4	(NA)	(NA)
32	Stone, clay, and glass products - - - - -	E1	59	23	1.5	16.6	1.1	2.2	11.2	38.1	41.0	78.2	6.4	1.5	27.1
327	Concrete, gypsum, and plaster products - - - - -	E1	38	18	0.9	10.0	0.6	1.2	5.9	22.8	27.0	49.9	3.3	1.1	20.4
3272	Concrete products, n.e.c. - - - - -	E3	16	8	0.3	3.4	0.2	0.5	2.2	7.6	5.8	13.3	(D)	0.5	6.3
3273	Ready-mixed concrete - - - - -	E1	19	8	0.4	4.6	0.2	0.4	2.2	9.0	12.6	21.5	1.0	0.5	11.2
33	Primary metal industries - - - - -	-	21	12	1.3	15.7	1.1	2.2	12.2	28.3	91.4	119.8	5.0	1.2	21.9
332	Iron and steel foundries - - - - -	-	7	5	0.5	5.1	0.4	0.8	4.2	8.5	7.6	15.7	0.7	0.4	4.7
34	Fabricated metal products - - - - -	-	143	60	5.5	67.2	4.2	8.2	44.6	152.3	202.2	360.1	11.4	4.9	72.9
341	Metal cans and shipping containers - - - - -	-	8	3	0.3	6.0	0.3	0.6	4.3	17.1	37.4	54.0	0.5	0.4	10.8
344	Fabricated structural metal products - - - - -	-	75	31	3.2	40.5	2.3	4.4	24.7	87.1	99.7	194.3	4.9	2.5	37.2
3441	Fabricated structural metal - - - - -	-	17	7	0.7	9.4	0.6	1.2	6.6	19.8	30.8	50.4	1.2	0.5	8.3
3442	Metal doors, sash, and trim - - - - -	E1	14	8	0.6	5.2	0.4	0.7	2.6	8.7	14.1	22.4	0.3	0.3	3.4
3443	Fabricated plate work (boiler shops) - - - - -	-	14	8	1.3	18.4	0.9	1.6	10.7	46.2	35.0	88.6	1.9	0.9	15.7
3444	Sheet metal work - - - - -	-	16	6	0.4	5.9	0.3	0.7	3.7	9.5	12.3	21.7	0.8	0.3	5.1
346	Metal forgings and stampings - - - - -	-	12	10	0.9	9.4	0.8	1.6	7.5	25.8	46.3	71.3	2.5	0.4	6.3
347	Metal services, n.e.c. - - - - -	-	16	7	0.5	4.8	0.4	0.7	3.7	7.0	3.7	10.7	0.4	0.4	3.9
3471	Plating and polishing - - - - -	-	10	5	0.4	4.0	0.3	0.6	3.1	5.9	2.7	8.6	0.3	0.3	3.6
349	Miscellaneous fabricated metal products - - - - -	-	23	4	0.4	3.8	0.3	0.5	2.6	9.2	11.0	19.8	2.9	0.5	8.0
35	Machinery, except electrical - - - - -	-	109	28	5.7	84.6	4.1	7.8	56.4	186.9	183.3	372.5	12.3	6.3	110.7
353	Construction and related machinery - - - - -	E1	11	7	0.8	10.2	0.4	0.8	4.4	14.8	18.5	32.8	(D)	(NA)	(NA)
356	General industrial machinery - - - - -	-	16	4	0.7	7.8	0.4	0.7	4.5	20.0	12.5	32.4	2.0	0.8	9.6
359	Miscellaneous machinery, except electrical - - - - -	E2	40	8	0.4	5.1	0.3	0.7	3.5	9.1	4.6	13.5	0.5	0.4	5.9

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Memphis, Tenn.-Ark.-Miss., SMSA—Con.														
36	Electric and electronic	-	41	15	2.6	30.0	2.2	3.9	19.6	86.9	68.2	155.4	3.6	3.9	80.1
364	equipment -----	-	12	6	1.4	17.4	1.2	2.3	12.6	48.9	36.2	86.1	2.7	1.8	41.3
369	Electric lighting and wiring	-	10	5	0.4	5.4	0.3	0.7	4.3	15.7	16.8	31.0	0.3	(NA)	(NA)
3714	equipment -----	-	15	5	0.7	6.4	0.6	1.1	4.9	15.0	13.5	26.6	0.7	(NA)	(NA)
	Miscellaneous electrical	E1													
	equipment and supplies --														
	Motor vehicle parts and														
	accessories -----														
38	Instruments and related	-	14	5	0.7	8.0	0.5	0.8	4.3	29.8	11.6	38.5	(D)	(NA)	(NA)
	products -----	-													
39	Miscellaneous	-	58	18	2.0	16.4	1.5	2.9	11.3	34.7	34.1	68.0	1.5	1.8	17.9
399	manufacturing industries ---	-	37	11	0.6	5.6	0.4	0.8	3.1	14.5	11.1	25.2	1.3	(NA)	(NA)
	Miscellaneous	E1													
	manufactures -----														
-	Administrative and auxiliary --	-	48	23	2.0	31.1	-	-	-	-	-	-	-	(NA)	(NA)
	Nashville-Davidson SMSA ---	-	1 354	460	80.5	914.7	55.7	107.5	554.5	1 935.3	2 436.0	4 342.9	156.5	72.0	1 149.7
20	Food and kindred products --	-	100	52	6.4	79.6	3.8	7.4	40.2	231.4	524.2	757.6	10.3	5.9	95.0
201	Meat products -----	-	25	10	2.3	32.4	1.8	3.5	22.4	113.3	290.8	406.6	3.9	2.0	34.3
202	Dairy products -----	-	13	9	0.9	12.1	0.4	0.9	4.9	31.6	76.6	108.1	2.1	1.0	20.5
2026	Fluid milk -----	-	5	3	0.6	8.8	0.2	0.5	2.8	22.0	42.3	64.3	(D)	0.6	12.4
203	Preserved fruits and	-	10	6	0.3	3.7	0.2	0.5	1.7	8.4	16.9	25.3	0.4	(NA)	(NA)
	vegetables -----	-	13	7	0.4	4.3	0.3	0.6	2.9	16.2	78.4	94.5	1.3	0.6	11.6
204	Grain mill products -----	-	9	4	1.0	13.4	0.3	0.6	3.6	26.7	22.6	49.2	1.1	0.9	8.8
205	Bakery products -----	-	9	4	1.0	13.4	0.3	0.6	3.6	26.7	22.6	49.2	1.1	0.9	8.8
2051	Bread, cake, and	-	9	4	1.0	13.4	0.3	0.6	3.6	26.7	22.6	49.2	1.1	0.9	8.8
	related products -----	-	9	4	1.0	13.4	0.3	0.6	3.6	26.7	22.6	49.2	1.1	0.9	8.8
208	Beverages -----	E2	9	8	0.7	8.0	0.2	0.5	1.6	23.9	19.7	43.2	(D)	0.7	10.9
2086	Bottled and canned soft	E2	9	8	0.7	8.0	0.2	0.5	1.6	23.9	19.7	43.2	(D)	0.7	10.9
	drinks -----														
209	Miscellaneous foods and	-	14	4	0.4	3.0	0.2	0.4	1.1	5.4	8.4	13.8	0.2	0.3	4.4
	kindred products-----	-													
22	Textile mill products-----	-	13	5	2.0	20.0	1.6	3.5	13.9	27.4	52.7	79.7	(D)	2.6	31.1
23	Apparel and other textile	-	44	25	5.2	31.8	4.2	7.4	22.8	92.4	144.9	239.5	2.3	5.2	61.5
	products -----	-													
232	Men's and boys'	-	10	8	2.5	15.7	1.9	3.3	10.9	53.8	106.6	160.1	(D)	2.5	30.5
	furnishings -----	-													
24	Lumber and wood products --	-	110	20	1.8	15.8	1.5	2.8	10.9	37.2	51.6	87.8	2.3	1.5	15.5
242	Sawmills and planing mills --	E1	45	5	0.8	6.3	0.7	1.4	5.2	16.6	19.4	35.7	0.7	0.5	3.9
243	Millwork, plywood, and	-	34	9	0.7	6.5	0.5	0.9	3.5	13.9	20.9	34.3	0.9	0.6	7.4
	structural members -----	-	13	5	0.3	3.4	0.2	0.4	1.4	8.1	15.3	22.9	0.5	(NA)	(NA)
2431	Millwork -----	-	13	5	0.3	3.4	0.2	0.4	1.4	8.1	15.3	22.9	0.5	(NA)	(NA)
25	Furniture and fixtures -----	E1	46	19	3.7	35.2	3.0	5.7	23.5	81.5	59.9	138.5	3.0	4.2	52.3
251	Household furniture -----	E1	31	12	3.0	27.7	2.4	4.6	18.3	54.9	43.4	95.8	2.4	3.1	35.0
2511	Wood household	E4	17	4	1.1	9.2	1.0	1.9	6.9	13.7	8.8	22.0	(D)	0.6	9.7
	furniture -----														
26	Paper and allied products ---	-	29	17	2.3	25.1	1.8	3.6	17.2	58.0	74.3	132.4	5.2	2.4	35.9
264	Miscellaneous converted	-	16	9	1.8	18.4	1.4	2.8	12.8	43.5	47.0	90.8	4.0	1.7	27.1
	paper products -----	-													
2643	Bags, except textile	-	8	5	0.7	7.7	0.6	1.2	5.6	17.1	26.9	44.5	(D)	0.7	9.3
	bags -----	-													
2653	Corrugated and solid	-	9	6	0.5	5.8	0.4	0.7	3.7	11.9	23.8	35.6	0.8	0.5	6.8
	fiber boxes -----	-													
27	Printing and publishing -----	-	285	58	10.4	110.1	5.1	9.6	52.5	199.8	138.1	336.5	28.4	7.2	114.2
2721	Periodicals -----	-	17	7	1.8	19.3	0.2	0.4	1.6	30.5	18.2	48.8	2.3	1.7	23.9
275	Commercial printing -----	-	131	23	3.5	41.7	2.7	5.1	30.5	67.1	57.7	124.6	17.7	2.3	35.9
2752	Commercial printing,	-	50	15	2.5	30.5	2.0	3.6	22.6	45.5	36.4	81.9	(D)	0.9	13.3
	lithographic -----	-	27	7	0.6	7.4	0.5	0.9	5.2	11.8	3.0	14.7	0.9	0.6	9.3
279	Printing trade services ---	E1													
28	Chemicals and allied	-	48	15	4.6	75.1	3.2	6.2	44.1	181.1	219.7	403.6	(D)	4.4	149.7
	products -----	-													
289	Miscellaneous chemical	-	17	4	0.3	3.1	0.2	0.5	2.0	11.9	17.5	29.1	1.0	(NA)	(NA)
	products -----	-													
30	Rubber and miscellaneous	-	38	17	3.7	47.5	2.8	5.6	32.9	91.3	137.4	221.8	11.2	2.2	33.3
	plastics products -----	-													
31	Leather and leather	-	18	12	3.9	32.1	3.3	6.3	21.5	84.4	61.5	137.3	2.1	4.0	45.5
	products -----	-	7	7	3.0	22.7	2.8	5.4	18.4	62.5	47.8	102.5	0.8	(NA)	(NA)
314	Footwear, except rubber --	-	7	7	3.0	22.7	2.8	5.4	18.4	62.5	47.8	102.5	0.8	(NA)	(NA)
3143	Men's footwear, except	-	7	7	3.0	22.7	2.8	5.4	18.4	62.5	47.8	102.5	0.8	(NA)	(NA)
	athletic -----	-													
32	Stone, clay, and glass	-	60	23	5.2	94.7	4.4	9.2	72.4	189.5	163.2	348.8	26.2	5.2	148.0
	products -----	-													
3272	Concrete products,	-	17	6	0.5	5.0	0.4	0.6	2.9	9.2	9.6	18.6	0.9	(NA)	(NA)
	n.e.c. -----	-	14	7	0.4	3.6	0.3	0.5	2.4	11.2	13.6	24.6	2.3	0.3	4.9
3273	Ready-mixed concrete --	-													
329	Miscellaneous nonmetallic	-	9	2	0.9	8.1	0.7	1.3	3.9	15.0	6.6	21.8	(D)	(NA)	(NA)
	mineral products -----	-													

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972		
			E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Nashville-Davidson SMSA—Con.															
33	Primary metal industries ----	-	22	11	0.8	9.2	0.7	1.4	6.4	20.2	41.8	61.6	1.5	0.7	12.3	
332	Iron and steel foundries ---	-	5	3	0.3	3.1	0.3	0.5	2.3	5.6	3.4	8.9	(D)	0.4	3.8	
34	Fabricated metal products ---	-	125	53	6.3	66.2	4.7	9.1	41.6	140.8	170.7	306.5	9.5	5.3	80.4	
344	Fabricated structural metal products -----	-	64	26	2.4	26.3	1.8	3.2	15.9	57.2	94.2	147.8	2.3	1.8	21.8	
3441	Fabricated structural metal -----	-	22	7	0.7	7.4	0.5	0.9	4.5	17.6	24.4	39.4	0.8	0.4	4.3	
3442	Metal doors, sash, and trim -----	-	8	4	0.8	7.2	0.5	1.0	4.3	15.0	19.7	34.8	(D)	0.5	3.8	
3446	Architectural metal work -----	-	10	4	0.4	4.3	0.3	0.5	2.3	8.9	11.2	19.9	0.5	0.4	5.2	
349	Miscellaneous fabricated metal products -----	-	23	15	1.4	11.0	1.1	2.2	7.9	21.4	24.5	44.6	1.1	0.7	8.7	
3496	Miscellaneous fabricated wire products -----	-	10	8	0.8	5.7	0.6	1.2	3.9	12.5	14.4	25.7	(D)	0.5	6.6	
35	Machinery, except electrical	E1	142	39	2.6	32.6	2.0	4.0	22.6	58.2	45.1	100.7	3.8	2.7	36.8	
354	Metalworking machinery ---	E1	56	17	1.0	13.2	0.8	1.7	9.6	22.5	16.4	38.2	2.2	(NA)	(NA)	
3544	Special dies, tools, jigs, and fixtures -----	-	44	13	0.7	9.3	0.6	1.2	7.2	13.1	6.5	19.2	1.8	(NA)	(NA)	
355	Special industry machinery -----	-	10	4	0.3	3.9	0.2	0.4	2.3	5.4	4.3	9.6	0.2	0.3	6.1	
3599	Machinery, except electrical, n.e.c. -----	E1	44	5	0.6	8.0	0.5	0.9	5.9	12.6	6.8	18.7	1.0	0.5	8.1	
36	Electric and electronic equipment -----	-	94	25	6.8	66.6	5.3	10.3	45.0	170.7	183.0	361.0	11.8	5.2	78.8	
363	Household appliances -----	-	11	10	3.7	33.3	2.8	5.6	22.6	81.0	109.3	197.6	5.5	2.7	42.0	
37	Transportation equipment ---	-	55	27	7.9	100.3	6.1	11.3	72.1	225.8	312.6	528.2	12.3	7.6	117.9	
3714	Motor vehicle parts and accessories -----	-	12	4	2.4	29.9	2.0	4.0	24.3	74.7	63.9	136.5	5.0	(NA)	(NA)	
38	Instruments and related products -----	-	16	3	0.9	7.3	0.8	1.5	5.5	13.2	12.2	25.9	0.3	(NA)	(NA)	
39	Miscellaneous manufacturing industries ---	-	62	8	1.2	9.4	0.9	1.7	5.4	16.1	15.0	31.2	0.3	1.2	15.0	
399	Miscellaneous manufactures -----	-	47	7	1.0	8.0	0.7	1.4	4.4	13.7	12.4	26.3	0.3	1.1	12.7	
3993	Signs and advertising displays -----	-	33	5	0.7	5.8	0.5	1.0	3.0	10.4	9.0	19.6	0.2	0.7	9.5	
--	Administrative and auxiliary --	-	35	26	4.1	50.4	-	-	-	-	-	-	-	(NA)	(NA)	

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
 (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Bedford County -----	-	56	31	4.7	41.8	4.0	7.7	32.4	124.2	157.6	276.7	3.9	4.2	74.1
39	Miscellaneous manufacturing industries -----	-	12	7	1.3	10.7	1.0	2.1	7.4	20.6	31.4	51.1	(D)	1.3	13.4
3952	Lead pencils and art goods -----	-	5	4	0.8	6.7	0.6	1.3	4.5	8.7	20.9	29.1	(D)	(NA)	(NA)
	Benton County -----	-	20	5	0.9	8.2	0.8	1.5	6.1	18.4	18.4	36.9	(D)	0.8	8.1
	Bradley County -----	-	132	52	11.7	107.1	9.4	17.3	73.1	277.4	321.0	591.0	22.9	12.1	174.9
22	Textile mill products -----	E2	9	6	0.8	6.1	0.7	1.4	4.6	12.1	15.5	27.6	(D)	2.1	23.9
23	Apparel and other textile products -----	-	9	7	2.4	16.8	1.9	2.8	11.0	26.0	37.3	60.5	0.6	2.4	20.8
25	Furniture and fixtures -----	E1	25	9	1.8	12.7	1.6	3.0	9.9	23.4	27.3	50.3	1.1	2.0	20.3
2512	Upholstered household furniture -----	-	15	9	1.8	12.4	1.6	2.9	9.7	22.9	26.8	49.4	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	4	4	3.7	40.1	3.0	5.8	27.1	87.2	137.7	223.0	9.2	3.2	62.2
	Campbell County -----	-	38	15	2.1	14.9	1.8	3.3	11.3	28.9	36.0	65.5	1.6	2.4	19.6
23	Apparel and other textile products -----	-	5	4	1.3	6.7	1.1	1.9	5.2	8.8	9.5	17.9	(D)	(NA)	(NA)
	Carroll County -----	-	36	12	3.0	19.6	2.6	4.6	16.7	46.4	50.6	95.1	1.7	2.5	27.4
23	Apparel and other textile products -----	E4	7	5	1.8	11.3	1.7	3.0	10.5	24.0	11.7	35.1	0.7	(NA)	(NA)
	Carter County -----	-	35	16	3.5	31.8	2.9	5.5	24.2	58.7	55.2	112.4	3.7	4.0	40.2
	Cheatham County -----	-	25	7	2.0	21.0	1.6	3.4	15.2	59.3	73.1	130.1	2.2	1.9	35.1
	Chester County -----	-	10	5	1.0	7.1	0.9	1.6	6.1	17.5	19.7	35.4	1.5	0.9	8.8
	Cialborne County -----	-	28	10	2.0	12.7	1.8	3.3	11.1	25.8	57.9	85.8	1.1	1.4	12.9
	Clay County -----	-	9	5	0.5	3.0	0.5	0.9	2.6	9.5	6.6	16.1	0.1	(D)	(D)
	Cocke County -----	-	33	18	3.3	32.8	2.8	5.5	25.8	86.4	137.9	223.7	4.1	3.4	49.4
25	Furniture and fixtures -----	-	6	4	0.5	4.3	0.4	0.7	3.4	9.1	9.7	17.7	0.1	0.7	8.8
	Coffee County -----	-	71	31	4.5	38.5	3.7	7.1	28.2	84.6	77.6	164.0	6.1	4.3	48.1
23	Apparel and other textile products -----	-	11	6	1.3	8.1	1.2	2.1	6.8	9.5	9.9	19.4	0.3	1.3	7.0
31	Leather and leather products -----	-	3	3	0.7	4.6	0.5	1.0	3.2	10.0	11.4	21.6	(D)	(NA)	(NA)
	Crockett County -----	-	15	6	1.8	13.4	1.5	2.6	9.9	42.0	49.1	92.4	(D)	(D)	(D)
	Cumberland County -----	-	55	14	2.0	17.5	1.7	2.9	12.7	35.9	34.5	70.8	3.6	2.2	33.7
	Davidson County -----	-	885	293	50.1	617.3	32.3	62.5	355.9	1 237.6	1 662.5	2 886.6	99.7	45.9	792.4
20	Food and kindred products --	-	65	39	5.3	68.6	3.1	6.2	34.6	200.6	451.9	655.0	8.3	4.9	76.3
202	Dairy products -----	-	7	6	0.8	10.7	0.3	0.7	4.0	26.6	59.2	86.2	1.9	0.8	15.3
24	Lumber and wood products --	-	42	13	1.2	10.3	0.9	1.8	6.8	23.0	31.4	53.7	0.8	1.0	10.4
243	Millwork, plywood, and structural members -----	-	24	8	0.6	5.6	0.4	0.7	2.9	11.0	16.4	27.1	(D)	0.6	7.1
25	Furniture and fixtures -----	E4	22	6	0.9	7.2	0.8	1.5	5.0	12.1	11.7	23.5	0.6	0.6	11.4
251	Household furniture -----	E6	15	4	0.7	5.5	0.6	1.2	3.8	9.0	8.9	17.7	(D)	(NA)	(NA)
26	Paper and allied products ---	-	11	6	0.7	8.2	0.6	1.1	5.4	16.5	23.5	39.8	1.1	0.9	12.2
27	Printing and publishing -----	-	229	49	9.4	97.5	4.6	8.5	47.2	171.0	115.9	285.2	(D)	6.9	109.9
273	Books -----	-	16	7	0.8	9.2	0.3	0.7	3.2	24.6	28.2	51.0	5.2	(NA)	(NA)
275	Commercial printing -----	-	106	20	3.0	35.5	2.3	4.2	26.2	54.7	43.2	98.1	(D)	2.3	35.4
279	Printing trade services -----	E1	27	7	0.6	7.4	0.5	0.9	5.2	11.8	3.0	14.7	0.9	(NA)	(NA)
28	Chemicals and allied products -----	-	43	14	4.6	74.5	3.2	6.1	43.7	178.0	213.2	394.7	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	19	9	1.8	24.5	1.3	2.8	16.4	44.4	57.5	100.2	5.0	(NA)	(NA)
32	Stone, clay, and glass products -----	-	35	14	4.0	83.5	3.4	7.4	66.2	168.0	147.2	311.3	23.9	3.9	133.9
34	Fabricated metal products ---	-	78	37	4.1	45.7	3.1	6.1	28.0	96.2	112.8	204.3	7.7	3.6	57.8
344	Fabricated structural metal products -----	-	35	17	1.1	12.0	0.8	1.4	7.0	23.5	50.4	72.1	1.2	1.1	14.9
349	Miscellaneous fabricated metal products -----	-	15	10	0.8	7.4	0.7	1.4	5.0	15.1	15.9	30.1	(D)	(NA)	(NA)
35	Machinery, except electrical --	E1	78	26	1.7	22.9	1.4	2.8	16.2	36.5	24.4	59.3	2.5	1.6	23.5
354	Metalworking machinery ---	-	24	10	0.5	7.4	0.4	0.9	5.6	10.6	5.0	15.2	1.3	0.5	6.4
36	Electric and electronic equipment -----	-	69	13	1.8	16.5	1.5	2.6	10.3	39.5	38.9	82.7	3.3	1.5	17.0
369	Miscellaneous electrical equipment and supplies --	E1	6	3	0.7	5.3	0.7	1.2	4.1	7.5	7.9	16.1	(D)	(NA)	(NA)
37	Transportation equipment ---	-	27	12	4.6	61.5	3.4	5.9	41.3	130.1	221.9	345.6	6.8	4.7	68.7
-	Administrative and auxiliary --	-	30	22	3.6	44.6	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977											1972		
			E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
23	Decatur County -----	-	26	10	2.1	13.0	1.8	3.3	10.6	19.9	10.3	30.0	0.8	2.0	12.8	
	Apparel and other textile products -----	-	4	4	1.6	9.3	1.4	2.6	7.9	11.4	2.5	14.1	(D)	1.7	8.6	
	De Kalb County -----	-	19	9	1.8	10.9	1.7	3.1	9.5	21.6	13.6	34.3	0.8	1.8	13.6	
	Dickson County -----	-	50	15	3.0	24.6	2.5	4.5	18.8	62.6	40.6	103.6	2.6	2.6	33.2	
34	Dyer County -----	-	46	13	4.6	48.6	3.9	8.0	36.5	109.4	123.8	231.9	9.8	4.2	71.9	
	Fabricated metal products ---	-	6	3	0.9	8.0	0.8	1.5	6.6	13.4	18.4	30.4	1.7	(NA)	(NA)	
	Fayette County -----	-	18	7	1.5	12.1	1.3	2.6	9.6	17.7	32.2	51.5	5.7	1.5	15.6	
	Fentress County -----	-	34	6	1.2	6.9	1.1	2.0	6.1	17.9	27.4	43.1	0.4	1.4	7.9	
23	Franklin County -----	-	36	11	2.1	16.9	1.9	3.5	14.2	26.3	59.8	90.0	1.2	1.3	22.1	
	Apparel and other textile products -----	-	6	4	0.8	5.3	0.7	1.4	4.8	9.7	3.5	13.3	(D)	(NA)	(NA)	
	Gibson County -----	-	60	32	8.0	76.9	6.2	11.7	52.8	152.6	157.1	303.4	11.0	9.5	111.6	
	Textile mill products -----	-	5	4	0.6	4.8	0.5	1.0	4.2	9.9	12.9	22.8	(D)	1.0	9.4	
22	Textile mill products -----	-	5	4	0.6	4.8	0.5	1.0	4.2	9.9	12.9	22.8	(D)	1.0	9.4	
23	Apparel and other textile products -----	-	6	5	1.5	9.2	1.2	2.0	6.9	16.2	11.0	27.2	(D)	(NA)	(NA)	
34	Fabricated metal products ---	-	9	4	1.6	17.9	1.3	2.5	13.9	45.9	17.2	62.9	2.3	(NA)	(NA)	
23	Giles County -----	-	35	19	3.7	30.5	3.3	6.2	24.8	110.6	83.9	196.7	5.3	3.7	65.3	
	Apparel and other textile products -----	E3	7	6	0.6	3.2	0.5	1.0	2.7	4.9	2.1	7.1	(Z)	(NA)	(NA)	
	Grainger County -----	-	23	7	0.7	5.6	0.6	1.1	4.0	13.4	18.4	31.2	0.5	0.6	7.5	
	Greene County -----	-	74	35	7.5	72.7	5.6	10.7	45.6	198.9	338.9	522.2	8.2	8.1	234.4	
20	Grundy County -----	-	20	5	0.5	2.4	0.5	0.7	2.0	3.5	2.7	6.3	0.2	0.6	3.2	
	Hamblen County -----	-	108	45	13.0	127.8	10.3	19.5	87.8	272.4	333.7	595.2	21.5	13.1	182.1	
	Food and kindred products --	-	6	3	0.5	3.7	0.3	0.6	2.0	8.0	19.9	27.7	0.5	(NA)	(NA)	
	Lumber and wood products --	E1	16	10	0.7	5.2	0.5	0.9	3.8	12.8	17.1	29.4	1.4	(NA)	(NA)	
25	Furniture and fixtures -----	-	28	11	4.6	41.6	3.9	7.2	29.4	77.9	68.7	146.4	3.6	5.8	61.8	
30	Rubber and miscellaneous plastics products -----	-	5	4	0.6	5.0	0.4	0.9	3.2	12.9	18.4	31.0	(D)	(NA)	(NA)	
35	Machinery, except electrical --	-	11	3	0.5	6.4	0.4	0.8	4.2	13.0	7.6	21.0	0.1	0.5	6.6	
204 205 2086	Hamilton County -----	-	506	215	41.3	502.9	30.8	59.7	328.4	1 045.5	1 601.8	2 633.2	74.9	44.8	768.0	
	Grain mill products -----	E1	6	5	0.5	5.3	0.4	0.8	3.5	43.4	113.5	159.6	1.1	0.5	26.1	
	Bakery products -----	-	8	5	2.0	23.8	1.3	2.3	10.4	45.1	44.0	89.2	(D)	1.4	24.8	
	Bottled and canned soft drinks -----	-	6	5	0.5	5.6	0.1	0.2	1.2	15.1	25.6	40.7	(D)	(NA)	(NA)	
22	Textile mill products -----	-	30	17	4.1	31.6	3.6	6.9	25.0	71.8	160.5	233.2	(D)	5.0	58.9	
23	Apparel and other textile products -----	E2	18	5	0.5	3.4	0.4	0.8	2.5	6.9	8.1	14.8	0.3	0.7	4.8	
24	Lumber and wood products --	-	30	6	0.5	4.4	0.4	0.8	3.2	10.2	13.7	23.3	0.9	0.6	8.5	
27 2752	Printing and publishing -----	-	65	15	1.4	15.3	0.8	1.4	7.7	27.0	15.5	42.4	1.6	1.4	18.8	
	Commercial printing, lithographic -----	-	28	9	0.5	5.8	0.4	0.7	3.7	9.9	7.3	17.1	0.7	(NA)	(NA)	
28	Chemicals and allied products -----	-	35	17	6.0	96.3	4.2	8.0	55.2	233.7	247.4	483.6	15.8	7.7	201.7	
31	Leather and leather products -----	-	12	9	1.1	7.2	0.8	1.4	4.6	19.7	18.1	37.6	(D)	1.2	15.9	
32	Stone, clay, and glass products -----	-	21	11	1.4	17.6	1.2	2.5	14.3	44.6	34.5	77.9	4.4	2.8	49.0	
3321	Gray iron foundries -----	-	6	5	3.4	43.7	2.9	6.1	35.4	63.7	92.9	156.8	7.3	(NA)	(NA)	
--	Administrative and auxiliary --	-	18	10	0.6	9.4	-	-	-	-	-	-	-	(NA)	(NA)	
23	Hardeman County -----	-	46	11	1.4	12.4	1.2	2.3	9.5	26.5	42.8	71.3	1.9	2.5	33.8	
	Hardin County -----	-	48	14	3.2	26.5	2.7	4.9	19.2	76.0	96.9	169.3	(D)	2.2	32.0	
	Apparel and other textile products -----	-	5	4	1.4	7.6	1.3	2.3	6.0	14.5	7.5	20.9	0.1	0.8	5.7	
	Hawkins County -----	-	20	8	3.8	50.0	3.0	6.0	36.6	104.9	105.0	213.3	8.1	4.3	64.9	
--	Haywood County -----	-	24	10	1.2	9.9	1.0	1.9	7.1	20.4	25.4	46.6	1.0	1.5	23.3	

See footnotes at end of table.

Table 7. **Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.**

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
205 2051	Henderson County -----	-	35	16	3.0	24.3	2.7	5.1	21.3	66.1	52.0	115.4	3.2	2.5	33.2
	Henry County -----	-	41	17	4.2	40.1	3.5	6.8	31.3	109.1	125.0	231.7	6.5	3.6	49.4
	Hickman County -----	-	20	10	1.3	9.8	1.2	2.4	8.3	33.8	25.7	58.6	2.2	1.3	16.2
	Humphreys County -----	-	18	10	2.7	40.4	2.1	4.0	28.1	157.3	204.5	365.7	14.9	2.0	71.6
	Knox County -----	-	396	147	25.4	254.7	19.7	37.4	172.4	553.1	760.5	1 306.4	42.1	26.3	355.9
232	Bakery products -----	-	4	4	0.9	9.8	0.4	0.8	3.5	17.1	12.4	29.5	(D)	0.8	9.7
	Bread, cake, and related products -----	-	4	4	0.9	9.8	0.4	0.8	3.5	17.1	12.4	29.5	(D)	(NA)	(NA)
27	Men's and boys' furnishings -----	-	10	8	3.6	24.0	3.3	6.1	20.9	80.5	81.9	160.2	(D)	4.0	41.9
	Printing and publishing -----	-	76	14	1.2	14.0	0.7	1.2	7.4	35.6	16.0	51.5	1.9	1.2	14.5
32	Stone, clay, and glass products -----	-	26	12	1.1	12.3	0.9	1.8	9.1	25.0	23.1	48.3	(D)	1.5	24.3
327	Concrete, gypsum, and plaster products -----	-	15	7	0.5	5.4	0.3	0.8	3.5	8.6	11.9	20.4	1.0	0.6	11.2
34	Fabricated metal products -----	E1	32	13	1.1	13.6	0.9	1.6	9.1	26.1	31.7	57.5	1.0	1.6	26.0
344	Fabricated structural metal products -----	E1	22	10	0.8	9.6	0.6	1.1	6.0	18.3	19.3	37.4	0.4	1.5	25.2
35	Machinery, except electrical -----	-	33	8	0.9	12.2	0.5	0.9	4.9	21.5	22.9	45.2	(D)	0.7	9.6
3993	Signs and advertising displays -----	-	13	6	0.8	8.3	0.6	1.0	4.8	16.3	15.5	32.0	0.4	(NA)	(NA)
23	Lake County -----	-	10	6	0.6	3.6	0.5	0.9	2.7	12.2	27.1	38.7	0.3	0.6	5.8
	Lauderdale County -----	-	35	17	3.8	29.6	3.4	7.0	26.3	91.7	66.1	156.9	3.4	2.3	63.9
	Apparel and other textile products -----	-	8	5	0.6	4.5	0.6	1.1	4.1	6.2	5.4	11.5	0.5	(NA)	(NA)
23	Lawrence County -----	-	53	17	5.3	49.4	4.8	8.8	41.6	120.0	171.5	274.4	8.5	4.7	76.8
	Lewis County -----	-	24	6	1.2	12.4	1.1	2.0	10.6	21.5	19.7	40.9	1.3	1.3	18.1
	Lincoln County -----	-	35	12	3.3	23.0	2.9	5.3	18.9	61.9	102.0	162.8	(D)	2.8	35.3
23	Apparel and other textile products -----	-	4	3	1.2	5.7	1.1	1.7	5.2	7.5	0.5	8.0	0.1	1.4	9.6
	Loudon County -----	-	28	13	3.4	32.7	2.9	5.6	25.0	101.0	62.1	162.9	3.4	3.6	55.8
	McMinn County -----	-	87	43	8.5	85.8	6.5	12.7	56.5	201.1	243.4	444.9	54.9	7.7	123.8
22	Textile mill products -----	-	11	9	0.8	4.9	0.7	1.3	3.9	10.6	22.2	33.1	(D)	1.1	12.5
23	Apparel and other textile products -----	-	15	12	2.0	11.2	1.6	3.0	8.4	19.3	8.1	25.4	0.6	1.7	8.6
232	Men's and boys' furnishings -----	-	5	4	0.6	3.8	0.6	1.0	3.2	7.3	7.1	14.2	(D)	0.5	2.2
25	Furniture and fixtures -----	-	13	6	0.9	7.6	0.8	1.5	5.1	12.6	13.3	25.9	0.9	0.5	5.6
23	McNairy County -----	-	44	15	3.4	25.5	2.9	5.1	19.1	61.3	49.4	111.0	2.9	2.9	38.5
	Apparel and other textile products -----	-	7	5	1.2	6.5	1.0	1.7	5.1	17.1	13.0	31.5	0.4	1.3	14.4
2321	Men's and boys' shirts and nightwear -----	-	5	4	1.0	5.4	0.8	1.4	4.1	16.0	12.7	30.0	0.3	(NA)	(NA)
23	Macon County -----	-	38	12	1.7	12.6	1.5	2.7	9.9	22.6	23.4	46.9	0.8	1.4	14.2
	Apparel and other textile products -----	-	5	5	0.9	5.5	0.8	1.4	4.5	8.4	6.3	14.7	(D)	(NA)	(NA)
	Madison County -----	-	102	48	8.3	88.1	6.7	13.2	64.2	208.6	319.3	523.3	15.0	7.6	106.7
20	Food and kindred products -----	-	16	11	2.1	24.2	1.6	3.3	16.6	57.5	129.6	188.9	6.2	1.4	21.1
23	Apparel and other textile products -----	-	5	3	0.5	3.3	0.5	0.8	2.6	4.4	1.9	6.3	(D)	(NA)	(NA)
24	Lumber and wood products -----	E2	20	10	0.6	4.8	0.6	1.0	3.8	9.3	8.1	16.8	1.1	0.7	7.1
26	Paper and allied products -----	-	6	6	0.7	8.4	0.5	1.1	5.8	15.9	32.8	49.2	0.9	0.5	10.3
32	Stone, clay, and glass products -----	-	10	4	1.2	13.4	1.0	1.7	10.3	41.2	22.8	62.5	(D)	1.2	24.9
Marion County -----		-	33	12	1.6	15.7	1.4	2.7	11.8	38.7	30.8	58.2	2.4	1.2	12.7
	Marshall County -----	-	43	22	4.3	36.4	3.6	6.7	26.7	101.5	144.7	246.9	6.5	3.7	51.5

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Maury County -----	-	66	39	6.2	69.8	5.0	9.4	51.0	220.8	351.1	561.9	59.9	4.6	82.7
23	Apparel and other textile products -----	-	6	6	1.6	9.8	1.4	2.4	8.2	22.1	11.9	34.5	0.4	1.1	10.9
28	Chemicals and allied products -----	-	7	6	1.4	23.6	1.1	2.2	17.1	106.0	145.7	237.9	44.5	1.1	28.2
30	Rubber and miscellaneous plastics products -----	E1	5	5	0.5	6.3	0.3	0.7	3.8	11.8	8.9	20.6	0.7	(NA)	(NA)
3079	Miscellaneous plastics products -----	E1	6	5	0.5	6.3	0.3	0.7	3.8	11.8	8.9	20.6	0.7	(NA)	(NA)
	Monroe County -----	-	62	19	2.3	17.5	2.0	3.8	13.9	36.3	30.5	66.8	2.2	1.5	13.4
23	Apparel and other textile products -----	E3	10	6	0.9	4.6	0.8	1.4	4.0	7.6	1.8	9.1	0.1	0.7	3.5
	Montgomery County -----	-	60	23	5.6	54.7	4.0	7.5	33.3	144.0	155.2	302.3	8.1	5.9	72.2
	Morgan County -----	-	12	5	1.0	5.8	0.9	1.5	4.9	14.6	12.7	27.0	0.2	(D)	(D)
	Oblon County -----	-	45	19	5.9	73.5	5.1	10.3	60.5	203.5	277.5	478.5	10.2	5.6	109.3
	Overton County -----	-	30	8	1.3	8.6	1.1	2.1	6.1	12.9	15.0	28.6	1.3	1.8	15.7
23	Apparel and other textile products -----	-	3	3	0.9	5.7	0.8	1.5	4.1	8.1	5.1	13.9	0.2	(NA)	(NA)
	Perry County -----	-	24	8	1.0	6.7	0.9	1.6	6.0	12.3	8.4	20.6	1.9	0.9	5.8
	Putnam County -----	-	115	42	5.9	49.8	4.7	8.4	33.8	107.1	105.1	210.0	5.5	4.4	76.4
23	Apparel and other textile products -----	-	9	6	1.4	7.8	1.3	2.0	6.9	15.4	2.3	17.6	0.4	1.1	5.9
2321	Men's and boys' shirts and nightwear -----	-	4	4	0.8	4.2	0.7	1.0	3.5	5.8	0.5	6.3	0.1	(NA)	(NA)
25	Furniture and fixtures -----	-	15	8	0.9	7.2	0.7	1.4	5.4	12.1	14.4	26.5	0.3	0.8	10.4
39	Miscellaneous manufacturing industries -----	-	7	4	0.6	5.3	0.4	0.7	2.8	11.2	6.8	18.2	0.3	(NA)	(NA)
	Rhea County -----	-	35	15	4.2	33.2	3.6	6.9	25.6	96.0	95.9	186.1	3.8	3.7	44.2
23	Apparel and other textile products -----	E2	6	5	0.9	6.5	0.8	1.5	4.9	10.7	12.3	22.8	0.1	0.9	6.2
	Roane County -----	-	37	16	9.5	129.5	6.0	11.5	67.5	302.0	227.3	599.3	2.9	7.1	121.1
	Robertson County -----	-	45	20	3.1	27.4	2.2	4.0	17.1	67.6	88.8	158.9	3.9	2.4	33.7
25	Furniture and fixtures -----	E1	9	4	0.6	4.8	0.5	0.9	3.9	15.2	11.2	26.1	0.3	(NA)	(NA)
31	Leather and leather products -----	-	4	4	0.9	9.0	0.6	1.0	3.7	23.4	14.2	36.8	(D)	(NA)	(NA)
	Rutherford County -----	-	114	44	8.4	92.0	6.0	11.6	57.0	209.4	269.5	475.5	13.1	6.2	94.9
20	Food and kindred products -----	-	10	4	0.5	5.1	0.2	0.4	1.7	14.7	29.8	44.7	(D)	(NA)	(NA)
26	Paper and allied products -----	-	5	3	0.6	6.3	0.4	0.8	4.5	13.4	26.5	40.1	0.7	0.5	5.4
34	Fabricated metal products -----	-	14	3	0.8	7.7	0.6	1.2	4.8	17.3	19.8	37.8	1.1	(NA)	(NA)
	Scott County -----	-	31	8	0.9	7.0	0.7	1.3	5.0	14.0	19.3	32.3	2.7	1.0	13.3
	Sequatchie County -----	-	14	7	1.0	4.6	0.8	1.4	3.7	6.1	3.5	9.5	0.3	1.4	2.4
23	Apparel and other textile products -----	-	5	4	0.8	3.7	0.7	1.1	3.1	4.7	0.9	5.7	(D)	(NA)	(NA)
	Savner County -----	-	51	11	1.9	16.4	1.6	3.5	13.3	38.5	26.8	65.1	0.5	1.7	20.1
	Shelby County -----	-	1 019	402	58.2	717.2	40.9	81.4	445.0	2 023.7	3 215.8	5 245.6	142.9	57.0	1 252.9
20	Food and kindred products -----	-	86	61	9.9	136.2	6.4	13.7	82.2	433.3	1 364.0	1 815.2	31.1	9.4	259.1
205	Bakery products -----	-	14	11	1.6	22.5	1.0	2.1	13.4	53.7	36.4	90.2	1.5	2.0	34.8
208	Beverages -----	-	7	7	1.7	24.7	0.7	1.3	10.8	88.6	154.4	243.2	4.8	1.3	52.0
23	Apparel and other textile products -----	-	28	15	2.0	13.3	1.8	3.4	10.5	33.3	34.4	67.5	0.4	1.8	44.5
239	Miscellaneous fabricated textile products -----	-	16	7	0.7	5.2	0.6	1.1	3.7	11.2	18.7	29.8	0.3	0.9	11.5
242	Sawmills and planing mills -----	-	23	15	1.3	11.0	1.1	2.3	8.6	14.8	21.3	39.6	3.2	2.2	18.0
2426	Hardwood dimension and flooring -----	-	14	10	0.9	7.7	0.8	1.8	6.3	14.1	16.1	30.3	(D)	(NA)	(NA)
25	Furniture and fixtures -----	-	52	19	3.2	28.3	2.6	5.2	17.4	54.8	66.8	120.8	2.7	3.3	44.6
2511	Wood household furniture -----	-	19	4	1.6	13.4	1.4	2.7	8.4	24.9	28.6	53.2	1.5	(NA)	(NA)
2514	Metal household furniture -----	-	4	3	0.5	3.8	0.5	0.9	2.9	6.2	11.2	17.2	(D)	(NA)	(NA)
2515	Mattresses and bedsprings -----	-	6	3	0.5	5.1	0.3	0.6	2.1	13.0	16.4	28.9	(D)	(NA)	(NA)
26	Paper and allied products -----	-	33	28	5.7	70.8	4.0	8.3	46.1	208.7	287.1	492.5	18.4	5.7	136.9
2641	Paper coating and glazing -----	-	5	5	0.5	4.9	0.5	0.9	3.2	16.9	33.0	49.5	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	73	34	5.5	75.2	3.1	6.7	38.8	395.7	385.7	780.9	33.6	5.3	228.8
287	Agricultural chemicals -----	-	8	6	0.9	8.4	0.5	1.0	4.8	47.1	39.8	90.5	(D)	0.5	18.3
344	Fabricated structural metal products -----	-	68	29	3.0	38.5	2.2	4.2	23.3	79.7	86.7	174.7	4.7	2.2	32.7
38	Instruments and related products -----	-	14	5	0.7	8.0	0.5	0.8	4.3	29.8	11.6	38.5	(D)	(NA)	(NA)
--	Administrative and auxiliary -----	-	43	23	1.9	30.6	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 7. **Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.**

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies.
For explanation of terms, see appendix B]

SIC code	County and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Smith County -----	-	16	7	1.3	8.4	1.2	2.2	7.1	19.1	29.4	48.5	(D)	1.2	10.4
	Sullivan County -----	-	122	47	25.5	354.6	18.3	35.5	211.2	847.0	1 110.2	1 936.3	56.2	22.6	482.9
20	Food and kindred products --	-	12	5	0.5	5.4	0.4	0.7	2.8	18.8	25.4	44.1	0.3	0.5	13.8
23	Apparel and other textile products -----	-	10	8	1.2	6.8	1.1	1.7	5.3	14.8	13.8	27.4	0.2	0.8	4.7
232	Men's and boys' furnishings -----	-	3	3	0.6	3.9	0.6	1.0	3.0	9.8	11.1	19.7	(D)	(NA)	(NA)
2328	Men's and boys' work clothing -----	-	3	3	0.6	3.9	0.6	1.0	3.0	9.8	11.1	19.7	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	12	4	1.1	11.4	0.9	1.8	9.3	26.7	19.3	45.4	(D)	1.2	21.0
	Sumner County -----	-	129	36	5.0	48.1	4.0	7.6	33.6	116.7	147.3	256.8	22.2	4.7	51.0
23	Apparel and other textile products -----	-	7	5	0.6	2.7	0.6	0.9	2.4	4.0	0.7	4.7	(Z)	(NA)	(NA)
25	Furniture and fixtures -----	-	6	4	0.8	7.0	0.7	1.3	5.4	14.6	13.4	27.2	(D)	1.1	12.6
34	Fabricated metal products ---	-	13	5	0.7	7.6	0.5	0.9	4.9	17.7	24.7	41.8	0.4	0.8	9.8
	Tipton County -----	-	22	9	1.0	9.9	0.8	1.7	6.2	31.0	38.6	71.9	5.2	1.7	24.1
	Trousdale County -----	-	8	7	1.4	8.8	1.2	2.1	7.0	24.3	15.0	34.8	0.5	1.1	9.6
	Unicoi County -----	-	20	7	1.4	14.7	1.1	2.2	10.5	33.1	16.0	48.7	1.4	1.7	20.3
	Van Buren County -----	-	10	4	0.6	3.6	0.6	1.0	2.9	3.7	4.3	8.1	(D)	(D)	(D)
	Warren County -----	-	62	21	6.5	57.0	5.5	10.6	44.4	151.8	152.7	302.3	7.0	5.3	75.6
23	Apparel and other textile products -----	-	3	3	0.8	4.6	0.7	1.3	3.6	7.5	3.8	11.1	(D)	(NA)	(NA)
24	Lumber and wood products --	-	16	5	0.5	3.5	0.4	0.7	2.4	6.5	7.1	13.3	0.5	(NA)	(NA)
	Washington County -----	-	113	49	11.7	109.8	8.2	15.4	61.9	244.0	244.8	488.7	12.8	10.3	132.5
20	Food and kindred products --	-	15	6	0.7	8.4	0.3	0.6	3.0	21.8	25.6	47.4	0.7	0.7	9.3
23	Apparel and other textile products -----	-	9	5	1.2	7.1	1.0	1.8	5.7	17.9	10.6	28.2	0.8	0.8	5.6
25	Furniture and fixtures -----	-	7	3	1.2	8.5	1.0	1.9	6.4	15.5	12.6	28.1	(D)	(NA)	(NA)
251	Household furniture -----	-	7	3	1.2	8.5	1.0	1.9	6.4	15.5	12.6	28.1	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	9	5	0.5	4.5	0.4	0.8	3.2	11.2	7.1	18.0	0.7	(NA)	(NA)
36	Electric and electronic equipment -----	-	5	4	4.0	44.6	2.1	4.1	16.9	87.9	62.8	152.4	(D)	3.4	58.0
	Wayne County -----	-	24	8	1.8	11.3	1.6	2.6	9.1	26.1	27.2	52.7	0.9	2.3	20.0
	Weakley County -----	-	42	16	3.5	23.9	3.0	5.5	18.2	45.2	41.8	86.2	1.8	3.1	31.2
23	Apparel and other textile products -----	E1	5	4	1.6	9.3	1.3	2.3	6.8	14.9	13.2	27.4	(D)	1.4	10.6
	White County -----	-	34	18	3.4	25.4	2.9	5.2	19.2	48.8	54.5	102.3	2.1	2.7	23.6
23	Apparel and other textile products -----	-	8	7	1.2	6.5	0.9	1.5	4.8	9.9	13.6	24.1	0.3	1.1	6.6
36	Electric and electronic equipment -----	-	3	3	1.6	14.2	1.4	2.8	11.2	31.4	26.3	55.8	1.2	(NA)	(NA)
	Williamson County -----	-	58	16	3.6	31.4	2.6	5.1	18.0	70.5	60.2	131.6	7.7	2.7	36.2
36	Electric and electronic equipment -----	-	6	3	0.9	5.8	0.8	1.4	4.1	15.8	18.2	34.1	2.2	(NA)	(NA)
	Wilson County -----	-	68	29	5.4	53.1	4.5	8.8	38.8	111.8	94.1	199.7	5.2	5.7	73.3

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
² Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry		1977											1972		
			E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
25 251	Athens -----	-	45	19	4.0	37.3	3.0	5.0	23.2	77.9	106.9	179.3	(D)	3.1	44.8	
	Furniture and fixtures -----	-	7	3	0.8	6.6	0.7	1.3	4.3	11.2	11.0	22.3	(D)	(NA)	(NA)	
	Household furniture -----	-	7	3	0.8	6.6	0.7	1.3	4.3	11.2	11.0	22.3	(D)	(NA)	(NA)	
	Bolivar -----	-	22	4	0.5	5.3	0.5	0.9	4.1	7.8	20.5	31.0	1.2	1.4	17.3	
	Brownsville -----	-	24	10	1.2	9.9	1.0	1.9	7.1	20.4	25.4	46.6	1.0	(D)	(D)	
	Camden -----	-	14	5	0.9	8.1	0.7	1.5	6.1	18.2	18.1	36.5	(D)	(D)	(D)	
	Centerville -----	-	16	7	1.2	9.0	1.1	2.2	7.6	31.7	24.3	55.0	1.9	1.1	15.5	
20 2086 225 26 27 28 30 31 3321 34 344 349 35 353 --	Chattanooga -----	-	413	188	38.1	468.0	28.4	55.2	308.3	989.6	1 517.1	2 472.9	67.2	36.1	577.0	
	Food and kindred products --	-	37	24	3.3	36.8	2.1	3.9	19.4	119.2	460.5	586.7	10.0	2.9	66.4	
	Bottled and canned soft drinks -----	-	6	5	0.5	5.6	0.1	0.2	1.2	15.1	25.6	40.7	(D)	(NA)	(NA)	
	Knitting mills -----	-	9	8	1.8	12.3	1.5	2.7	8.8	25.3	70.7	95.9	0.7	(NA)	(NA)	
	Paper and allied products ---	-	14	10	1.0	11.6	0.8	1.6	8.7	25.9	48.1	73.6	8.2	(NA)	(NA)	
	Printing and publishing -----	-	54	12	1.2	13.8	0.7	1.2	6.8	24.4	12.9	37.2	(D)	(NA)	(NA)	
	Chemicals and allied products -	-	29	14	5.7	91.6	3.9	7.4	51.4	217.6	223.0	443.3	(D)	(NA)	(NA)	
	Rubber and miscellaneous plastics products -----	-	9	6	0.5	5.3	0.3	0.7	3.3	19.5	47.8	68.0	0.8	(NA)	(NA)	
	Leather and leather products -----	-	11	9	1.1	7.2	0.8	1.4	4.6	19.7	18.1	37.6	(D)	(NA)	(NA)	
	Gray iron foundries -----	-	6	5	3.4	43.7	2.9	6.1	35.4	63.7	92.9	156.8	7.3	(NA)	(NA)	
22 25 36 30 3079 232 39 233	Fabricated metal products ---	-	48	23	7.5	107.7	5.9	11.4	79.4	182.6	203.2	365.9	8.0	(NA)	(NA)	
	Fabricated structural metal products -----	-	24	11	5.4	82.7	4.2	8.0	60.6	114.7	150.8	251.5	4.9	(NA)	(NA)	
	Miscellaneous fabricated metal products -----	-	9	5	1.4	17.8	1.1	2.2	13.4	43.1	30.4	68.1	1.1	(NA)	(NA)	
	Machinery, except electrical --	-	50	19	3.1	37.6	2.2	4.6	25.4	75.7	76.5	151.7	4.7	(NA)	(NA)	
	Construction and related machinery -----	-	7	6	1.4	16.4	0.9	1.7	10.8	36.3	41.6	76.2	1.1	(NA)	(NA)	
	Administrative and auxiliary --	-	17	10	0.6	9.3	-	-	-	-	-	-	-	(NA)	(NA)	
	Cleveland -----	-	113	46	9.9	89.3	8.0	14.8	61.5	185.6	273.5	454.2	(D)	11.4	153.7	
	Textile mill products -----	E2	9	6	0.8	6.1	0.7	1.4	4.6	12.1	15.5	27.6	(D)	(NA)	(NA)	
	Furniture and fixtures -----	-	22	9	1.8	12.5	1.6	3.0	9.8	23.0	26.9	49.7	(D)	(NA)	(NA)	
	Electric and electronic equipment -----	-	4	4	3.7	40.1	3.0	5.8	27.1	87.2	137.7	223.0	9.2	3.2	62.2	
30 3079 232 39 233	Clinton -----	-	19	8	0.9	9.9	0.7	1.4	7.2	34.8	23.9	58.2	3.8	(NA)	(NA)	
	Collierville -----	-	23	15	1.8	18.0	1.4	2.8	12.5	79.7	124.5	204.5	(D)	(D)	(D)	
	Columbia -----	-	48	28	4.6	52.8	3.6	6.9	38.5	153.5	271.7	430.9	(D)	3.2	46.3	
	Rubber and miscellaneous plastics products -----	E1	6	5	0.5	6.3	0.3	0.7	3.8	11.8	8.9	20.6	0.7	(NA)	(NA)	
	Miscellaneous plastics products -----	E1	6	5	0.5	6.3	0.3	0.7	3.8	11.8	8.9	20.6	0.7	(NA)	(NA)	
	Cookeville -----	-	92	35	5.0	43.5	4.0	7.2	29.2	95.8	93.4	187.0	5.2	3.7	71.4	
	Men's and boys' furnishings -----	-	4	3	0.9	5.1	0.9	1.4	4.6	11.9	1.8	13.6	(D)	(NA)	(NA)	
	Miscellaneous manufacturing industries -----	-	7	4	0.6	5.3	0.4	0.7	2.8	11.2	6.8	18.2	0.3	(NA)	(NA)	
	Crossville -----	-	50	14	1.9	17.3	1.6	2.8	12.4	35.4	34.0	69.8	3.6	2.1	33.2	
	Dickson -----	-	23	8	2.4	19.7	2.0	3.7	15.3	51.2	30.8	82.4	2.0	2.1	28.3	
233	Dyersburg -----	-	36	8	3.8	42.9	3.2	6.8	32.1	99.7	114.3	213.7	(D)	3.7	66.9	
	Elizabethton -----	-	28	16	3.5	31.7	2.9	5.5	24.1	58.4	54.5	111.4	3.6	4.0	40.1	
	Etowah -----	-	17	11	1.7	12.4	1.4	2.6	9.6	18.5	42.4	56.9	1.5	1.5	21.2	
	Women's and misses' outerwear -----	E1	4	3	0.5	2.6	0.4	0.8	2.2	3.5	0.3	3.7	(D)	(NA)	(NA)	
	Fayetteville -----	-	32	12	3.3	22.9	2.9	5.3	18.9	61.8	101.8	162.5	(D)	2.6	32.5	
	Franklin -----	-	44	16	3.5	30.2	2.5	5.0	17.6	69.3	59.2	129.4	7.6	2.5	33.2	
	Gallatin -----	-	45	16	2.3	23.4	1.9	3.7	17.2	58.5	95.3	151.0	(D)	2.6	32.4	
233	Goodlettsville -----	-	33	11	1.5	19.2	1.2	2.3	14.1	34.0	111.6	146.2	1.9	(NA)	(NA)	
	Hendersonville -----	-	49	4	0.8	11.0	0.5	1.0	5.0	27.9	18.6	44.1	1.7	(NA)	(NA)	

See footnotes at end of table.

Table 8. **Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.**

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			E1	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Hohenwald -----	-	24	6	1.2	12.4	1.1	2.0	10.6	21.5	19.7	40.9	1.3	1.3	18.1
	Humboldt -----	-	20	12	1.9	19.0	1.6	3.1	14.4	35.2	68.5	101.3	4.3	2.0	21.4
	Jackson -----	-	91	41	5.1	57.1	4.0	8.0	39.6	129.4	246.0	369.3	10.1	(D)	(D)
20	Food and kindred products --	-	16	11	2.1	24.2	1.6	3.3	16.6	57.5	129.6	188.9	6.2	(NA)	(NA)
23	Apparel and other textile products -----	-	5	3	0.5	3.3	0.5	0.8	2.6	4.4	1.9	6.3	(D)	(NA)	(NA)
24	Lumber and wood products --	E1	16	9	0.6	4.6	0.5	1.0	3.6	8.6	7.8	15.8	1.0	(NA)	(NA)
	Johnson City -----	-	87	41	10.7	102.2	7.4	14.1	57.0	232.2	225.4	458.0	11.8	7.5	85.8
20	Food and kindred products --	-	10	5	0.6	7.5	0.2	0.5	2.6	20.9	22.3	43.1	0.6	(NA)	(NA)
25	Furniture and fixtures -----	-	6	3	1.2	8.3	1.0	1.9	6.3	15.2	12.1	27.2	(D)	(NA)	(NA)
251	Household furniture -----	-	6	3	1.2	8.3	1.0	1.9	6.3	15.2	12.1	27.2	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	5	4	4.0	44.6	2.1	4.1	16.9	87.9	62.8	152.4	(D)	(NA)	(NA)
	Kingsport -----	-	57	23	18.5	271.7	12.9	25.4	164.4	436.3	907.2	1 346.0	(D)	5.2	88.5
	Knoxville -----	-	323	109	18.5	183.4	14.2	27.1	122.3	404.4	582.1	982.1	24.9	23.6	313.8
20	Food and kindred products --	-	38	22	3.4	36.2	2.2	4.7	20.6	83.1	237.4	320.7	7.4	(NA)	(NA)
205	Bakery products -----	-	4	4	0.9	9.8	0.4	0.8	3.5	17.1	12.4	29.5	(D)	(NA)	(NA)
2051	Bread, cake, and related products -----	-	4	4	0.9	9.8	0.4	0.8	3.5	17.1	12.4	29.5	(D)	(NA)	(NA)
23	Apparel and other textile products -----	-	27	17	4.9	34.5	4.4	7.9	28.2	92.5	100.0	190.9	2.2	(NA)	(NA)
27	Printing and publishing -----	-	69	12	1.1	13.0	0.6	1.1	6.6	33.5	14.0	47.5	1.8	(NA)	(NA)
34	Fabricated metal products ---	E2	25	8	0.5	6.2	0.4	0.7	4.0	9.7	13.1	22.7	(D)	(NA)	(NA)
	Lafayette -----	-	19	7	1.3	9.9	1.1	2.1	7.8	18.3	20.9	40.1	(D)	1.0	11.9
	La Follette -----	-	23	7	1.3	7.9	1.0	1.8	5.7	12.3	13.4	25.2	0.9	2.0	15.3
	La Vergne -----	-	16	8	2.0	27.0	1.3	2.4	16.1	52.4	109.1	155.9	(D)	(D)	(D)
	Lawrenceburg -----	-	30	11	4.6	44.8	4.2	7.7	37.7	109.8	156.8	250.1	(D)	(D)	(D)
	Lebanon -----	-	51	25	5.0	50.5	4.2	8.3	37.0	108.0	92.1	194.0	5.0	5.2	68.5
	Lenoir City -----	-	12	4	0.6	3.9	0.5	1.0	3.3	6.7	15.9	22.6	0.1	0.5	4.1
	Lexington -----	-	26	15	2.9	23.9	2.6	5.0	21.0	65.1	51.0	113.6	3.1	2.4	32.9
	Livingston -----	-	23	6	1.2	7.8	1.0	2.0	5.5	11.4	14.0	26.0	1.2	1.7	14.6
	McKenzie -----	-	14	6	1.4	7.7	1.2	2.0	5.2	17.2	18.3	35.2	0.3	1.4	16.5
	McMinnville -----	-	51	18	6.1	54.6	5.2	10.0	42.3	145.5	148.4	291.9	(D)	(D)	(D)
	Manchester -----	-	22	5	1.2	10.0	1.0	2.0	7.6	31.7	15.2	46.8	(D)	0.8	4.8
	Martin -----	-	16	4	0.9	6.2	0.8	1.3	4.6	13.2	16.4	29.4	0.6	1.3	17.3
	Maryville -----	-	36	8	0.6	5.6	0.4	0.8	3.2	14.8	15.8	30.4	1.8	0.9	20.2
	Memphis -----	-	917	358	51.7	634.8	36.2	72.2	391.0	1 725.4	2 719.2	4 452.4	106.5	54.1	1 161.6
20	Food and kindred products --	-	79	56	8.8	116.7	5.5	12.2	69.7	352.3	1 200.4	1 572.1	24.8	9.0	217.7
204	Grain mill products -----	-	13	9	1.4	23.6	1.1	2.4	18.2	132.4	162.9	292.0	7.0	(NA)	(NA)
207	Fats and oils -----	-	13	8	1.3	17.5	0.9	1.8	10.8	32.1	679.6	734.4	6.6	(NA)	(NA)
209	Miscellaneous foods and kindred products -----	-	11	6	0.9	10.0	0.6	1.1	5.3	26.2	30.3	56.6	1.3	(NA)	(NA)
232	Men's and boys' furnishings -----	-	5	5	0.8	5.1	0.7	1.4	4.4	18.5	15.0	33.5	(D)	(NA)	(NA)
24	Lumber and wood products --	E2	74	33	3.2	26.7	2.8	5.4	20.2	41.0	55.3	98.9	3.8	(NA)	(NA)
2426	Hardwood dimension and flooring -----	-	14	10	0.9	7.7	0.8	1.8	6.3	14.1	16.1	30.3	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members -----	E4	28	12	1.4	11.5	1.2	2.3	8.2	20.0	26.7	45.7	0.4	(NA)	(NA)
2431	Millwork -----	E5	9	5	1.0	8.0	0.9	1.6	5.9	13.4	19.1	31.5	0.2	(NA)	(NA)
25	Furniture and fixtures -----	-	48	16	2.9	26.1	2.4	4.7	15.8	49.8	60.5	109.5	(D)	(NA)	(NA)
2515	Mattresses and bedsprings -----	-	6	3	0.5	5.1	0.3	0.6	2.1	13.0	16.4	28.9	(D)	(NA)	(NA)
2641	Paper coating and glazing -----	-	5	5	0.5	4.9	0.5	0.9	3.2	16.9	33.0	49.5	(D)	(NA)	(NA)
265	Paperboard containers and boxes -----	-	13	11	1.3	17.2	1.0	2.2	11.9	36.1	54.7	90.7	3.0	(NA)	(NA)
2653	Corrugated and solid fiber boxes -----	-	8	6	0.7	10.0	0.5	1.1	6.3	20.4	40.3	60.3	(D)	(NA)	(NA)
27	Printing and publishing -----	E1	146	22	2.9	37.4	1.7	3.1	20.8	83.5	36.3	119.7	9.4	3.1	55.1

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Memphis—Con.														
32	Stone, clay, and glass products -----	E2	35	13	0.7	7.4	0.5	1.0	4.3	16.2	17.7	33.8	2.6	(NA)	(NA)
327	Concrete, gypsum, and plaster products -----	E2	20	11	0.5	5.7	0.3	0.6	3.0	11.5	13.4	24.8	2.1	(NA)	(NA)
34	Fabricated metal products ---	-	104	44	4.1	49.8	3.1	6.1	32.1	106.2	124.1	237.9	6.4	3.5	47.4
344	Fabricated structural metal products -----	-	59	26	2.6	33.8	1.9	3.6	20.2	71.0	70.2	149.5	3.6	(NA)	(NA)
3441	Fabricated structural metal -----	-	14	6	0.6	7.2	0.5	0.9	5.2	15.4	19.0	34.3	0.5	(NA)	(NA)
3443	Fabricated plate work (boiler shops) -----	-	7	5	1.0	14.7	0.6	1.2	8.1	35.8	19.4	63.5	1.6	(NA)	(NA)
346	Metal forgings and stampings -----	-	9	7	0.7	7.8	0.6	1.3	6.3	21.3	43.5	64.3	2.1	(NA)	(NA)
35	Machinery, except electrical --	-	86	18	4.2	66.8	3.1	5.7	45.8	123.0	107.7	232.9	8.3	4.1	74.3
356	General industrial machinery -----	-	13	3	0.6	6.9	0.3	0.6	3.9	19.0	11.8	30.6	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	33	11	2.1	23.7	1.8	3.2	16.2	74.5	50.1	124.7	2.2	(NA)	(NA)
3714	Motor vehicle parts and accessories -----	E1	12	4	0.6	6.0	0.5	1.1	4.5	14.0	12.7	24.9	0.4	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	47	14	1.6	13.5	1.3	2.4	9.4	28.0	27.6	55.2	0.6	(NA)	(NA)
--	Administrative and auxiliary --	-	42	22	1.9	30.3	-	-	-	-	-	-	-	(NA)	(NA)
	Milan -----	-	18	10	3.9	41.3	2.9	5.6	27.6	81.9	61.6	140.5	5.9	5.6	65.9
	Mount Pleasant -----	-	10	5	0.5	6.4	0.4	0.8	4.5	13.4	17.7	32.5	(D)	(D)	(D)
	Murfreesboro -----	-	68	29	5.3	54.9	4.0	7.5	34.7	136.7	134.6	272.4	6.4	5.1	80.0
	Nashville-Davidson -----	-	829	281	48.4	596.1	31.1	60.2	341.8	1 193.9	1 540.9	2 720.5	96.8	(NA)	(NA)
202	Dairy products -----	-	7	6	0.8	10.7	0.3	0.7	4.0	26.6	59.2	86.2	1.9	(NA)	(NA)
26	Paper and allied products ---	-	11	6	0.7	8.2	0.6	1.1	5.4	16.5	23.5	39.8	1.1	(NA)	(NA)
2751	Commercial printing, letterpress -----	E1	60	6	0.5	5.2	0.4	0.7	3.8	10.3	7.3	17.8	1.0	(NA)	(NA)
279	Printing trade services -----	E1	27	7	0.6	7.4	0.5	0.9	5.2	11.8	3.0	14.7	0.9	(NA)	(NA)
28	Chemicals and allied products -----	-	43	14	4.6	74.5	3.2	6.1	43.7	178.0	213.2	394.7	(D)	(NA)	(NA)
3079	Miscellaneous plastics products -----	-	15	5	0.8	9.1	0.5	1.0	4.6	25.0	16.6	40.4	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	30	12	3.9	82.7	3.3	7.3	65.6	166.0	145.1	307.1	(D)	(NA)	(NA)
35	Machinery, except electrical --	E1	69	24	1.6	21.7	1.3	2.7	15.5	34.6	23.6	56.6	2.5	(NA)	(NA)
354	Metalworking machinery -----	-	21	9	0.5	6.7	0.4	0.9	5.1	9.6	4.7	13.9	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E1	24	5	0.5	6.9	0.4	0.8	5.0	10.8	6.0	16.0	0.9	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E1	24	5	0.5	6.9	0.4	0.8	5.0	10.8	6.0	16.0	0.9	(NA)	(NA)
36	Electric and electronic equipment -----	-	69	13	1.8	16.5	1.5	2.6	10.3	39.5	38.9	82.7	3.3	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies -----	E1	6	3	0.7	5.3	0.7	1.2	4.1	7.5	7.9	16.1	(D)	(NA)	(NA)
--	Administrative and auxiliary --	-	30	22	3.6	44.6	-	-	-	-	-	-	-	(NA)	(NA)
	Onelda -----	-	18	5	0.7	5.4	0.6	1.1	4.0	11.6	16.9	27.8	2.2	0.9	11.9
	Paris -----	-	30	13	3.8	35.7	3.2	6.1	28.0	100.1	113.1	210.9	(D)	3.0	41.2
	Portland -----	-	21	11	1.3	9.3	1.1	1.9	7.3	21.8	20.7	41.8	1.5	0.9	6.5
	Pulaski -----	-	22	11	1.6	12.8	1.4	2.7	10.1	24.8	25.3	48.8	(D)	1.7	14.9
	Ripley -----	-	17	9	1.7	14.1	1.6	3.3	12.8	23.7	34.4	58.3	2.0	0.6	5.3
	Savannah -----	-	33	9	1.9	11.8	1.8	3.0	9.7	22.1	20.9	42.5	0.5	1.3	11.3
	Selmer -----	-	19	8	1.9	16.6	1.7	3.0	11.9	36.3	28.1	53.4	1.7	1.6	23.8
	Sevierville -----	-	21	9	1.0	7.3	0.8	1.6	5.9	20.6	12.4	32.8	0.5	1.5	17.5
	Shelbyville -----	-	48	29	4.6	40.6	3.9	7.5	31.6	122.4	155.1	272.7	(D)	4.1	73.2
3952	Lead pencils and art goods -----	-	5	4	0.8	6.7	0.6	1.3	4.5	8.7	20.9	29.1	(D)	(NA)	(NA)
	South Pittsburg -----	-	15	8	1.1	10.3	1.0	1.9	8.1	23.2	19.7	42.7	1.7	0.9	6.3
22	Textile mill products -----	-	3	3	0.5	4.3	0.5	1.0	3.6	7.6	5.3	12.6	(D)	(NA)	(NA)
	Springfield -----	-	34	19	3.0	26.6	2.1	3.9	16.4	64.9	85.7	153.2	3.7	2.1	31.6
31	Leather and leather products -----	-	4	4	0.9	9.0	0.6	1.0	3.7	23.4	14.2	36.8	(D)	(NA)	(NA)
	Sweetwater -----	-	25	9	1.1	10.0	1.0	1.9	7.8	23.5	20.2	43.9	1.8	0.5	6.8
	Tulahoma -----	-	47	23	3.1	27.3	2.5	4.9	19.7	50.7	59.4	111.8	3.2	2.9	37.8
31	Leather and leather products -----	-	3	3	0.7	4.6	0.5	1.0	3.2	10.0	11.4	21.6	(D)	(NA)	(NA)
	Union City -----	-	20	8	4.6	62.0	4.0	8.3	50.3	186.1	263.4	447.3	(D)	(D)	(D)
	Winchester -----	-	18	5	0.7	6.7	0.6	1.2	5.5	9.7	44.6	56.0	0.5	(NA)	(NA)

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
TENNESSEE	6487	508	8	171	443	979	341	136	862	242	41	191	92	342	118	522	587	240	198	74	265	127
1 TO 4 EMPLOYEES	2598	162	-	36	73	586	128	19	513	89	14	50	16	129	26	165	239	89	72	38	125	29
5 TO 19 EMPLOYEES	689	45	-	13	25	109	36	3	110	26	8	15	5	44	11	63	80	27	20	13	31	5
20 TO 19 EMPLOYEES	723	48	1	15	32	92	45	13	87	18	7	21	3	54	17	70	106	20	25	5	32	16
100 TO 49 EMPLOYEES	881	83	1	24	47	104	42	31	75	41	8	30	11	69	17	101	85	25	19	4	29	35
50 TO 99 EMPLOYEES	525	67	1	18	56	46	34	24	39	18	2	27	8	21	11	50	32	10	19	6	19	17
100 TO 249 EMPLOYEES	582	63	5	29	116	39	31	32	23	20	1	30	12	18	21	50	18	23	14	3	20	14
250 TO 499 EMPLOYEES	302	27	-	22	71	2	13	7	6	13	1	11	35	1	12	14	15	19	14	3	6	10
500 TO 999 EMPLOYEES	129	12	-	12	19	1	10	4	5	6	-	4	2	5	3	3	6	5	5	2	3	1
1000 TO 2499 EMPLOYEES	42	1	-	2	4	-	2	3	1	7	-	1	-	1	1	1	-	2	1	-	-	-
2500 EMPLOYEES AND OVER	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANDERSON COUNTY	84	2	-	5	2	8	5	-	8	1	-	1	1	1	5	3	7	21	5	3	6	1
1 TO 19 EMPLOYEES	58	1	-	5	-	7	3	-	5	-	-	-	-	5	3	4	13	4	3	4	1	-
20 TO 99 EMPLOYEES	18	1	-	-	1	1	2	-	-	-	-	-	-	-	-	2	6	1	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BEDFORD COUNTY	56	7	-	3	6	8	1	1	4	-	-	2	4	1	-	2	2	-	3	-	12	-
1 TO 19 EMPLOYEES	25	3	-	-	2	7	1	-	2	-	-	-	1	3	1	-	1	-	2	-	5	-
20 TO 99 EMPLOYEES	18	3	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BENTON COUNTY	20	3	-	-	2	9	-	-	1	-	-	-	1	-	-	-	2	1	-	-	-	-
1 TO 19 EMPLOYEES	15	3	-	-	1	9	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BLEDSCOE COUNTY	22	1	-	1	3	13	-	-	1	-	-	-	1	-	-	-	-	1	-	-	-	1
1 TO 19 EMPLOYEES	19	1	-	1	-	12	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BLOUNT COUNTY	57	5	-	1	1	5	1	-	10	3	1	1	-	9	4	3	3	-	6	-	4	-
1 TO 19 EMPLOYEES	41	2	-	-	-	4	-	-	9	2	1	-	-	7	1	-	-	-	5	-	-	-
20 TO 99 EMPLOYEES	10	-	-	-	-	-	-	-	1	-	-	-	-	2	1	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BRADLEY COUNTY	132	7	-	9	9	14	25	3	13	5	-	8	5	7	1	9	5	4	-	2	5	1
1 TO 19 EMPLOYEES	80	3	-	3	3	13	15	1	3	4	-	4	3	4	1	6	4	-	-	-	-	-
20 TO 99 EMPLOYEES	30	1	-	4	3	1	5	1	3	-	-	4	3	2	-	2	1	-	-	-	-	-
100 TO 249 EMPLOYEES	7	1	-	1	1	-	2	1	1	-	-	-	1	1	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	15	-	-	1	1	-	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
CAMPBELL COUNTY	38	3	-	2	5	1	-	1	3	1	-	1	-	3	-	7	4	2	5	-	-	-
1 TO 19 EMPLOYEES	23	3	-	1	1	1	-	-	3	1	-	1	-	1	-	3	2	2	-	-	-	-
20 TO 99 EMPLOYEES	9	-	-	1	1	-	-	-	1	-	-	-	-	2	-	2	-	-	1	-	-	-
100 TO 249 EMPLOYEES	4	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CANNON COUNTY	16	1	-	1	7	1	1	-	2	-	-	-	-	-	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	6	1	-	1	4	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CARROLL COUNTY	36	5	-	-	7	12	1	-	3	1	-	-	1	2	1	-	1	1	-	-	1	-
1 TO 19 EMPLOYEES	24	5	-	-	1	11	-	-	3	1	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CARTER COUNTY	35	1	-	1	2	7	1	1	3	3	-	-	-	4	1	5	2	-	2	-	1	1
1 TO 19 EMPLOYEES	19	1	-	1	1	-	-	-	2	1	-	-	-	-	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	7	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHEATHAM COUNTY	25	1	-	-	1	10	-	-	1	-	-	-	1	1	-	4	-	1	5	-	-	-
1 TO 19 EMPLOYEES	18	1	-	-	-	-	-	-	1	-	-	-	-	1	-	2	-	-	2	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastic products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electrical and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40's
CHESTER COUNTY	10	-	-	-	2	2	-	1	1	1	-	-	1	-	-	1	2	-	-	-	-	-
1 TO 19 EMPLOYEES	5	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLAIBORNE COUNTY	28	1	-	2	1	9	5	-	2	-	-	-	-	2	-	1	3	-	2	-	-	-
1 TO 19 EMPLOYEES	19	1	-	-	-	8	2	-	2	-	-	-	-	-	-	1	2	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLAY COUNTY	9	-	-	1	1	4	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COCKE COUNTY	33	2	-	-	-	10	6	2	3	1	-	1	1	1	-	2	1	2	-	-	-	1
1 TO 19 EMPLOYEES	15	-	-	-	-	8	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	1	-	-	-	2	2	1	-	-	-	-	-	-	-	1	-	-	-	-	-	1
100 TO 249 EMPLOYEES	10	-	-	-	-	-	-	-	-	1	-	1	-	1	-	-	-	2	-	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
COFFEE COUNTY	71	3	-	-	11	7	3	3	5	-	1	1	3	3	-	2	13	2	8	1	5	-
1 TO 19 EMPLOYEES	40	1	-	-	5	6	2	2	4	-	-	-	-	1	-	1	12	2	5	-	1	-
20 TO 99 EMPLOYEES	19	2	-	-	2	1	1	2	1	-	1	-	1	2	-	1	1	2	2	-	2	-
100 TO 249 EMPLOYEES	6	-	-	-	3	-	-	1	-	-	-	1	2	-	-	-	-	-	1	1	2	-
250 EMPLOYEES AND OVER	6	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CROCKETT COUNTY	15	2	-	-	3	1	-	-	2	-	-	1	-	1	-	1	2	1	-	-	-	1
1 TO 19 EMPLOYEES	9	1	-	-	2	1	-	-	2	-	-	-	-	-	-	1	1	-	-	-	-	1
20 TO 99 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CUMBERLAND COUNTY	55	5	-	2	4	18	4	-	6	-	-	2	-	5	1	1	4	-	-	-	2	1
1 TO 19 EMPLOYEES	41	3	-	1	1	16	4	-	4	-	-	1	-	5	1	-	-	-	-	-	-	1
20 TO 99 EMPLOYEES	7	1	-	1	2	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	1	-	1	1	1	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DAVIDSON COUNTY	865	65	1	12	25	42	22	11	229	43	6	19	8	35	9	78	78	69	27	13	43	30
1 TO 19 EMPLOYEES	572	26	-	8	12	29	16	5	180	29	5	10	5	21	3	41	52	56	15	12	39	8
20 TO 99 EMPLOYEES	199	25	-	6	11	11	5	2	32	10	1	5	1	10	6	29	24	10	7	1	3	11
100 TO 249 EMPLOYEES	55	7	1	2	5	1	1	1	12	2	-	2	2	3	-	6	2	1	2	1	1	5
250 EMPLOYEES AND OVER	39	7	-	2	-	1	1	1	5	2	-	-	-	1	-	2	-	2	3	-	-	6
DECATUR COUNTY	26	-	-	-	4	14	-	-	2	-	1	-	-	-	-	1	3	-	-	-	-	1
1 TO 19 EMPLOYEES	16	-	-	-	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DE KALB COUNTY	19	-	-	1	7	3	1	-	1	-	-	-	-	1	-	-	1	1	1	1	-	-
1 TO 19 EMPLOYEES	10	-	-	2	2	3	1	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DICKSON COUNTY	50	5	-	-	3	21	2	3	2	-	-	-	-	2	1	2	4	-	4	-	1	-
1 TO 19 EMPLOYEES	35	4	-	-	-	20	1	2	2	-	-	-	-	2	-	1	4	-	1	-	1	-
20 TO 99 EMPLOYEES	8	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DYER COUNTY	46	4	-	1	2	3	1	-	5	1	-	3	-	2	1	6	4	3	5	1	4	-
1 TO 19 EMPLOYEES	33	3	-	-	3	3	1	-	5	1	-	1	-	2	1	3	4	1	4	1	1	-
20 TO 99 EMPLOYEES	5	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastic products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																		39	CAO's
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	
FAVETTE COUNTY	18	1	-	-	1	3	-	1	1	-	1	2	-	1	1	2	3	-	1	-	-
1 TO 19 EMPLOYEES	11	-	-	-	-	3	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
FENTRESS COUNTY	34	3	-	1	5	18	-	-	1	-	-	-	-	3	-	2	-	1	-	-	-
1 TO 19 EMPLOYEES	28	2	-	1	1	17	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRANKLIN COUNTY	36	3	-	1	6	6	1	1	3	-	-	1	1	7	-	1	1	-	2	1	1
1 TO 19 EMPLOYEES	25	3	-	-	2	5	1	1	3	-	-	1	-	6	-	1	1	-	1	1	1
20 TO 99 EMPLOYEES	5	-	-	-	2	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
GIBSON COUNTY	60	2	-	5	6	4	2	4	9	1	-	2	3	3	-	9	3	2	2	2	1
1 TO 19 EMPLOYEES	28	1	-	1	1	2	1	1	9	-	-	1	-	2	-	5	3	-	1	1	-
20 TO 99 EMPLOYEES	10	-	-	2	1	-	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	12	1	-	1	1	2	1	1	-	-	-	-	2	-	-	2	-	-	-	-	1
250 EMPLOYEES AND OVER	10	-	-	1	3	-	-	-	-	-	-	1	1	-	-	1	-	2	1	-	-
GILES COUNTY	35	6	-	1	7	5	-	1	4	-	-	2	1	1	1	1	2	-	2	-	-
1 TO 19 EMPLOYEES	16	2	-	1	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	11	3	-	-	4	1	-	1	-	-	-	1	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	1	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
GRAINGER COUNTY	23	1	-	1	1	5	10	-	2	-	-	-	-	-	-	-	2	-	1	-	-
1 TO 19 EMPLOYEES	16	-	-	1	-	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GREENE COUNTY	74	8	1	4	3	11	4	-	8	-	-	3	1	4	1	7	8	4	4	3	-
1 TO 19 EMPLOYEES	39	5	-	1	1	9	2	-	4	-	-	2	1	2	-	2	5	2	1	-	-
20 TO 99 EMPLOYEES	18	2	-	1	1	2	1	-	-	-	-	-	-	-	-	1	1	-	-	-	-
100 TO 249 EMPLOYEES	8	1	1	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	9	-	-	2	-	-	1	-	-	-	-	-	-	-	-	1	1	2	-	-	-
GRUNDY COUNTY	20	-	-	-	4	11	2	-	1	-	-	-	-	1	-	-	1	-	-	-	-
1 TO 19 EMPLOYEES	15	-	-	-	2	10	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAMBLIN COUNTY	108	6	-	5	2	16	28	4	8	2	-	5	1	4	-	10	11	3	-	1	1
1 TO 19 EMPLOYEES	63	3	-	1	1	17	17	1	6	1	-	1	1	4	-	8	8	1	-	1	1
20 TO 99 EMPLOYEES	23	1	-	1	1	8	5	1	1	-	-	2	-	-	-	1	2	-	-	-	-
100 TO 249 EMPLOYEES	9	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	13	1	-	-	-	-	5	1	-	1	-	-	-	-	-	1	1	2	-	-	-
HAMILTON COUNTY	506	43	-	30	18	30	18	15	65	35	3	11	12	21	20	59	59	14	12	6	17
1 TO 19 EMPLOYEES	291	16	-	13	13	24	11	7	50	18	3	4	4	10	10	34	38	4	3	4	13
20 TO 99 EMPLOYEES	124	15	-	4	2	4	5	4	13	7	-	5	4	8	2	15	13	4	3	1	3
100 TO 249 EMPLOYEES	154	4	-	4	2	2	2	4	2	6	-	2	1	2	1	3	3	1	-	1	1
250 EMPLOYEES AND OVER	37	4	-	7	-	-	-	-	2	4	-	-	1	1	7	3	3	3	-	-	2
HANCOCK COUNTY	2	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HARDMAN COUNTY	46	2	-	-	2	28	-	-	2	2	-	1	1	2	-	-	2	2	1	-	1
1 TO 19 EMPLOYEES	35	2	-	-	-	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	-	1	-	-	-	1	-	1	-	-	-	-	1	2	1	-	-
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HARDIN COUNTY	48	2	-	-	5	21	1	1	1	1	-	2	1	4	1	2	3	-	-	-	3
1 TO 19 EMPLOYEES	34	2	-	-	1	18	1	1	1	1	-	1	1	3	-	1	3	-	-	-	2
20 TO 99 EMPLOYEES	5	-	-	-	-	1	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 — Con.

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																				38	39	CAO's																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
LAWRENCE COUNTY	53	5	-	-	6	6	2	1	5	-	-	1	1	3	-	4	6	-	4	1	8
1 TO 19 EMPLOYEES	36	5	-	-	6	6	2	1	5	-	-	1	1	3	-	4	6	-	4	1	8
20 TO 99 EMPLOYEES	11	-	-	-	1	1	1	1	-	-	-	-	-	1	-	2	1	-	3	1	4
100 TO 249 EMPLOYEES	4	-	-	-	3	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-
250 EMPLOYEES AND OVER	4	-	-	-	3	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-
LEWIS COUNTY	24	3	-	-	2	12	-	-	1	-	-	1	1	1	1	-	1	-	-	-	1
1 TO 19 EMPLOYEES	18	3	-	-	1	10	-	-	1	-	-	1	-	1	1	-	1	-	-	-	1
20 TO 99 EMPLOYEES	3	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
LINCOLN COUNTY	35	10	-	2	4	4	3	-	1	1	-	-	-	2	1	1	2	1	1	-	1
1 TO 19 EMPLOYEES	23	7	-	1	1	4	2	-	1	1	-	-	-	2	1	1	1	1	1	-	1
20 TO 99 EMPLOYEES	6	3	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LOUDON COUNTY	28	3	-	4	1	3	2	-	3	-	-	2	-	1	1	1	5	1	1	-	-
1 TO 19 EMPLOYEES	15	1	-	1	1	2	1	-	3	-	-	1	-	1	-	-	5	-	-	-	-
20 TO 99 EMPLOYEES	4	1	-	1	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	6	1	-	2	-	-	1	-	-	-	-	1	-	-	-	1	-	1	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
MC MINN COUNTY	87	4	-	11	15	16	13	2	3	4	1	3	-	2	-	1	6	4	1	-	1
1 TO 19 EMPLOYEES	44	3	-	2	3	14	7	1	1	2	1	1	-	1	-	1	4	1	1	-	-
20 TO 99 EMPLOYEES	18	-	-	5	5	1	4	-	1	1	-	1	-	1	-	1	1	-	-	-	-
100 TO 249 EMPLOYEES	14	-	-	4	4	1	1	1	-	1	-	1	-	-	-	-	2	3	-	-	-
250 EMPLOYEES AND OVER	11	1	-	-	3	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
MC NARY COUNTY	44	-	-	-	7	17	2	-	3	1	-	1	2	-	1	3	1	3	1	-	2
1 TO 19 EMPLOYEES	29	-	-	-	2	15	2	-	3	1	-	-	-	-	1	2	1	2	-	-	1
20 TO 99 EMPLOYEES	4	-	-	-	1	1	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	3	1	-	-	-	-	-	1	2	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MACON COUNTY	38	2	-	-	5	22	1	-	2	1	-	-	-	1	-	-	1	1	1	-	-
1 TO 19 EMPLOYEES	26	-	-	-	1	18	-	-	2	1	-	-	-	1	-	-	1	1	-	-	-
20 TO 99 EMPLOYEES	6	-	-	-	1	3	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MADISON COUNTY	102	16	-	1	5	20	3	6	11	3	1	3	-	10	1	3	10	-	2	-	7
1 TO 19 EMPLOYEES	54	5	-	-	2	10	1	1	10	2	1	2	-	6	-	2	6	-	1	-	6
20 TO 99 EMPLOYEES	28	6	-	-	1	9	1	3	1	1	-	1	-	2	-	1	2	-	1	-	1
100 TO 249 EMPLOYEES	11	2	-	-	1	1	1	2	1	-	-	-	-	1	1	-	1	-	-	-	1
250 EMPLOYEES AND OVER	9	3	-	1	1	-	-	1	-	-	-	-	-	1	1	-	-	-	-	-	-
MARION COUNTY	33	1	-	7	3	7	1	-	3	2	-	-	-	2	2	1	2	-	1	-	1
1 TO 19 EMPLOYEES	21	-	-	4	3	5	1	-	3	1	-	-	-	-	1	1	1	-	1	-	1
20 TO 99 EMPLOYEES	17	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARSHALL COUNTY	43	5	-	-	2	7	1	2	2	1	-	2	2	3	2	3	5	1	2	-	3
1 TO 19 EMPLOYEES	21	4	-	-	1	5	1	1	1	1	-	1	1	3	1	2	2	1	1	-	1
20 TO 99 EMPLOYEES	12	1	-	-	2	2	1	1	1	1	-	1	-	3	2	1	2	1	-	-	2
100 TO 249 EMPLOYEES	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAURY COUNTY	66	5	-	1	6	7	1	2	5	7	-	6	-	7	3	7	5	1	1	-	1
1 TO 19 EMPLOYEES	27	2	-	-	1	5	1	2	4	1	-	1	-	5	2	4	1	1	1	-	1
20 TO 99 EMPLOYEES	24	3	-	-	1	1	-	2	1	2	-	4	-	2	2	3	3	-	-	-	-
100 TO 249 EMPLOYEES	15	-	-	1	1	1	-	-	1	1	-	-	-	1	1	-	1	-	-	-	-
250 EMPLOYEES AND OVER	10	-	-	-	4	-	-	-	-	3	-	1	-	-	-	-	1	-	-	-	-
MEigs COUNTY	13	-	-	1	2	2	3	1	-	1	-	1	1	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	9	-	-	1	1	2	2	1	-	1	-	1	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastic products; 31--leather and leather products; 32--stone, clay and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO ²
MONROE COUNTY	62	4	-	4	10	25	3	1	5	-	-	-	-	5	1	1	-	1	2	-	-	-
1 TO 19 EMPLOYEES	43	2	-	2	4	23	1	1	4	-	-	-	-	3	-	1	-	1	1	-	-	-
20 TO 99 EMPLOYEES	10	1	-	-	2	2	1	1	1	-	-	-	-	2	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	7	1	-	2	3	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MONTGOMERY COUNTY	60	6	3	-	3	11	-	1	9	-	-	2	2	3	2	6	6	1	-	1	2	2
1 TO 19 EMPLOYEES	37	4	1	-	2	8	-	-	7	-	-	1	-	2	2	4	1	-	-	1	2	-
20 TO 99 EMPLOYEES	12	1	2	-	1	1	-	1	-	-	-	-	-	1	-	4	-	-	-	-	1	1
100 TO 249 EMPLOYEES	4	1	-	-	1	2	-	-	1	-	-	1	2	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOORE COUNTY	4	2	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MORGAN COUNTY	12	-	-	1	3	6	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-
1 TO 19 EMPLOYEES	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OBION COUNTY	45	8	-	-	5	9	-	-	3	-	-	5	1	1	2	4	5	-	2	-	-	-
1 TO 19 EMPLOYEES	26	5	-	-	2	6	-	-	2	-	-	3	-	1	1	2	5	-	1	-	-	-
20 TO 99 EMPLOYEES	11	2	-	-	3	-	-	-	1	-	-	3	-	-	-	1	-	-	1	-	-	-
100 TO 249 EMPLOYEES	6	1	-	-	2	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OVERTON COUNTY	30	1	-	-	3	10	5	-	3	-	-	-	-	4	-	-	3	-	1	-	-	-
1 TO 19 EMPLOYEES	22	-	-	-	1	8	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	1	-	-	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PERRY COUNTY	24	-	-	-	2	14	-	-	2	-	-	3	-	-	-	-	2	-	1	-	-	-
1 TO 19 EMPLOYEES	16	-	-	-	12	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	1	-	-	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PICKETT COUNTY	9	-	-	-	3	4	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POLK COUNTY	15	-	-	2	2	6	2	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	10	-	-	1	2	5	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PUTNAM COUNTY	115	8	-	1	9	21	15	1	6	3	-	5	1	6	1	7	14	4	4	2	7	7
1 TO 19 EMPLOYEES	73	5	-	1	3	18	7	1	5	2	-	2	-	5	1	4	11	2	1	1	2	2
20 TO 99 EMPLOYEES	25	3	-	-	1	3	4	-	1	1	-	3	-	1	-	3	3	-	1	1	2	2
100 TO 249 EMPLOYEES	10	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	2	1	-	1	1
RHEA COUNTY	35	1	-	5	6	7	1	1	5	1	-	1	-	2	-	1	3	1	-	-	-	-
1 TO 19 EMPLOYEES	20	1	-	2	1	6	-	-	5	-	-	-	-	-	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	3	3	1	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-
250 EMPLOYEES AND OVER	6	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROANE COUNTY	37	3	-	3	3	6	2	1	7	2	-	-	-	4	2	-	1	1	-	-	2	2
1 TO 19 EMPLOYEES	21	2	-	1	1	4	2	-	6	1	-	-	-	2	-	-	1	1	-	-	-	-
20 TO 99 EMPLOYEES	7	1	-	-	1	2	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROBERTSON COUNTY	45	5	1	-	1	4	9	1	2	1	-	1	2	4	-	1	4	5	2	-	2	1
1 TO 19 EMPLOYEES	25	3	-	-	-	4	5	-	2	-	-	-	-	-	-	-	3	2	-	-	-	-
20 TO 99 EMPLOYEES	10	2	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	1	1
100 TO 249 EMPLOYEES	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40's
RUTHERFORD COUNTY.	114	10	-	-	2	8	2	5	17	1	-	6	1	7	4	14	12	6	11	1	6	1
1 TO 19 EMPLOYEES.	70	6	-	-	1	7	-	2	14	-	-	2	1	4	1	11	8	3	6	-	4	-
20 TO 99 EMPLOYEES.	25	3	-	-	-	1	-	-	3	1	-	3	-	3	2	1	3	-	4	1	-	-
100 TO 249 EMPLOYEES.	9	-	-	-	-	-	1	2	-	-	-	-	-	-	-	1	1	1	1	-	1	1
250 EMPLOYEES AND OVER.	10	1	-	-	1	-	-	1	-	-	-	1	-	4	-	1	4	-	-	-	-	-
SCOTT COUNTY.	31	-	-	-	1	16	-	-	3	-	-	1	1	4	-	1	4	-	-	-	-	-
1 TO 19 EMPLOYEES.	23	-	-	-	-	12	-	-	3	-	-	-	-	4	-	1	3	-	-	-	-	-
20 TO 99 EMPLOYEES.	6	-	-	-	1	3	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES.	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEQUATCHIE COUNTY.	14	-	-	1	5	4	1	-	-	-	1	-	-	-	-	-	-	1	-	-	1	-
1 TO 19 EMPLOYEES.	7	-	-	1	1	4	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEVIER COUNTY.	51	5	-	1	1	7	6	-	5	1	-	1	2	5	1	2	1	2	1	-	10	-
1 TO 19 EMPLOYEES.	40	4	-	-	-	6	6	-	4	-	-	1	2	3	-	2	1	1	-	-	10	-
20 TO 99 EMPLOYEES.	7	1	-	-	-	1	-	-	1	1	-	-	-	2	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHELBY COUNTY.	1019	86	1	8	28	80	52	33	159	73	15	31	2	41	16	126	94	36	28	14	53	43
1 TO 19 EMPLOYEES.	617	25	-	4	13	46	33	5	137	39	10	19	-	26	8	71	71	24	20	3	37	20
20 TO 99 EMPLOYEES.	268	31	-	3	8	26	12	15	18	22	3	8	1	14	4	40	19	7	3	4	12	18
100 TO 249 EMPLOYEES.	89	20	1	-	5	7	5	8	3	7	1	3	1	1	4	13	-	3	3	-	2	3
250 EMPLOYEES AND OVER.	45	10	-	1	2	1	2	5	1	5	1	1	1	-	-	2	4	2	2	1	2	2
SMITH COUNTY.	16	-	-	-	3	5	2	-	2	-	-	-	1	-	-	-	1	1	-	-	-	-
1 TO 19 EMPLOYEES.	9	-	-	-	-	5	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	3	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-
STEWART COUNTY.	15	-	-	-	1	12	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES.	14	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SULLIVAN COUNTY.	122	12	-	2	10	9	1	3	24	7	-	3	2	12	7	11	8	2	2	4	2	1
1 TO 19 EMPLOYEES.	75	7	-	-	2	7	-	-	19	3	-	3	-	8	4	7	7	2	1	3	2	-
20 TO 99 EMPLOYEES.	18	2	-	-	2	1	1	1	3	-	-	-	2	1	1	3	-	-	-	1	-	-
100 TO 249 EMPLOYEES.	15	3	-	-	5	1	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	14	-	-	2	1	-	-	-	1	2	4	-	-	-	1	1	1	-	-	-	-	-
SUMNER COUNTY.	129	6	1	-	7	11	6	4	18	2	1	2	1	6	4	13	27	10	5	1	4	-
1 TO 19 EMPLOYEES.	93	3	-	-	2	9	2	3	15	2	1	1	-	4	3	8	25	7	3	1	4	-
20 TO 99 EMPLOYEES.	19	2	-	-	3	2	1	1	2	-	-	1	-	2	1	2	2	2	1	-	-	-
100 TO 249 EMPLOYEES.	12	1	1	-	-	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	5	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	1	1	-	-	-
TIPTON COUNTY.	22	4	-	-	1	1	1	1	2	-	-	1	-	5	1	2	1	-	-	-	2	-
1 TO 19 EMPLOYEES.	13	1	-	-	1	1	-	-	1	-	-	-	-	4	-	2	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	5	2	-	-	1	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TROUSDALE COUNTY.	8	-	-	-	3	1	1	1	-	-	-	-	1	-	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	1	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	3	-	-	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UNICOI COUNTY.	20	-	-	-	1	8	-	-	1	1	-	1	-	1	-	1	2	4	-	-	-	-
1 TO 19 EMPLOYEES.	13	-	-	-	-	-	-	-	1	-	-	-	-	1	-	1	1	2	-	-	-	-
20 TO 99 EMPLOYEES.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	3	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
UNION COUNTY.	9	-	-	-	1	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	6	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
VAN BUREN COUNTY	10	-	-	1	3	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WARREN COUNTY	62	6	-	1	3	16	2	-	4	-	-	1	1	2	-	5	12	2	2	-	1	2
1 TO 19 EMPLOYEES	41	6	-	-	-	11	2	-	3	-	-	-	-	1	-	3	9	-	2	-	-	-
20 TO 99 EMPLOYEES	10	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	2	1	-	-	-	-	-	-	1	-	-	1	2	2	-	-	-	-
250 EMPLOYEES AND OVER	8	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WASHINGTON COUNTY	113	15	-	4	9	13	7	1	11	3	-	6	1	7	3	9	8	5	1	3	4	3
1 TO 19 EMPLOYEES	64	9	-	-	4	11	4	1	10	1	-	3	1	3	1	4	5	1	2	3	1	2
20 TO 99 EMPLOYEES	23	3	-	2	1	1	-	-	2	2	-	1	-	3	-	4	2	1	1	-	-	-
100 TO 249 EMPLOYEES	13	2	-	-	-	-	-	-	1	-	-	2	-	1	2	1	1	-	-	1	-	-
250 EMPLOYEES AND OVER	13	1	-	2	3	-	3	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-
WAYNE COUNTY	24	-	-	-	3	13	1	-	2	-	-	-	1	1	-	-	-	2	-	1	-	-
1 TO 19 EMPLOYEES	16	-	-	-	-	11	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	2	1	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WEAVER COUNTY	42	3	-	1	5	11	-	-	3	-	-	1	1	4	1	2	5	3	-	-	1	1
1 TO 19 EMPLOYEES	26	2	-	1	1	8	-	-	2	-	-	-	-	3	1	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	1	-	-	-	2	-	-	-	-	-	1	-	1	-	2	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	3	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
WHITE COUNTY	34	-	-	-	8	14	2	-	3	-	-	1	-	1	-	-	1	3	-	-	-	1
1 TO 19 EMPLOYEES	16	-	-	-	1	9	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	8	-	-	-	1	5	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	-	5	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-
WILLIAMSON COUNTY	58	2	-	-	1	7	4	2	11	2	-	4	1	3	2	3	6	6	-	-	1	3
1 TO 19 EMPLOYEES	42	2	-	-	-	6	3	1	10	2	-	2	-	1	2	2	5	3	-	-	1	1
20 TO 99 EMPLOYEES	6	-	-	-	-	1	-	-	1	-	-	2	-	2	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	2	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	1	1	-	-	-	-	1	-	-	1	-	1	-	-	-	-
WILSON COUNTY	68	6	-	1	4	7	1	3	5	-	-	5	2	6	1	7	10	-	4	1	5	-
1 TO 19 EMPLOYEES	39	3	-	-	-	1	1	-	3	-	-	5	-	4	1	4	-	-	-	-	-	-
20 TO 99 EMPLOYEES	20	2	-	-	-	1	2	3	2	-	-	-	-	1	-	3	4	-	2	1	-	-
100 TO 249 EMPLOYEES	4	1	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

¹ Represents zero.

² Only those counties and size classes that include data for manufacturing establishments are shown.

Texas

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SUMMARY OF FINDINGS

In 1977, 886.4 thousand persons were employed in Texas' manufacturing establishments. This figure represented an increase of 20 percent from the 1972 figure of 736.1 thousand workers.

The total value added by manufacture for the State amounted to \$33,080 million in 1977, an increase of approximately 117 percent from the 1972 figure of \$15,228 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were machinery, except electrical; food and kindred products; fabricated metal products; and electric and electronic equipment. They accounted for approximately 39 percent of the State's 1977 employment. The order has shifted from 1972 when industry groups food and kindred products; machinery, except electrical; transportation equipment; and fabricated metal products accounted for approximately 38 percent of the State's employment.

The most important counties in the State ranked by employment were Harris, Dallas, Tarrant, and Bexar. They accounted for approximately 54 percent of the State's 1977 manufacturing employment. The order has shifted from 1972 when Dallas, Harris, Tarrant, and Bexar accounted for approximately 52 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 3 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Texas:						
1977.....	886.4	11,653.1	841.5	10,735.9	44.9	917.2
1972.....	736.1	6,344.6	708.2	5,949.8	27.9	394.8
1967.....	657.5	4,340.4	636.8	4,130.8	20.7	209.6
1963.....	513.8	2,890.5	499.4	2,765.4	14.4	125.1
STANDARD CONSOLIDATED STATISTICAL AREA						
Houston-Galveston:						
1977.....	221.3	3,568.8	197.7	3,027.1	23.7	541.7
1972.....	173.6	1,816.0	161.8	1,580.3	11.8	176.6
STANDARD METROPOLITAN STATISTICAL AREAS						
Abilene:						
1977.....	5.8	51.4	5.7	50.4	.1	1.0
1972.....	5.2	32.2	(D)	(D)	(D)	(D)
1967.....	4.0	21.0	(D)	(D)	(D)	(D)
1963.....	3.4	14.2	(D)	(D)	(D)	(D)
Amarillo:						
1977.....	7.7	94.0	7.2	84.5	.5	9.5
1972.....	5.4	38.8	5.0	33.3	.4	5.5
1967.....	4.5	26.9	4.1	23.6	.4	3.3
1963.....	4.0	22.0	(D)	(D)	(D)	(D)
Austin:						
1977.....	20.7	259.0	20.3	253.6	.4	5.4
1972.....	14.0	101.3	12.4	98.0	.3	3.3
1967.....	7.0	34.9	(D)	(D)	(D)	(D)
1963.....	5.9	25.8	(D)	(D)	(D)	(D)
Beaumont-Port Arthur-Orange:						
1977.....	38.3	683.3	37.8	672.9	.5	10.4
1972.....	37.6	418.1	37.1	409.6	.5	8.5
1967.....	33.2	273.4	32.4	265.0	.8	8.4
1963.....	32.8	233.9	32.3	229.1	.5	4.8
Brownsville-Harlingen-San Benito:						
1977.....	9.0	74.3	8.8	71.8	.2	2.5
1972.....	6.9	39.4	(D)	(D)	(D)	(D)
1967.....	5.4	19.3	(D)	(D)	(D)	(D)
1963.....	4.8	14.9	4.8	14.9	-	-
Bryan-College Station:						
1977.....	2.1	22.2	(D)	(D)	(D)	(D)
1972.....	2.0	13.0	(D)	(D)	(D)	(D)
Corpus Christi:						
1977.....	12.1	178.6	11.9	173.7	.2	4.9
1972.....	10.9	102.9	10.7	98.9	.2	4.0
1967.....	10.0	73.2	9.7	69.8	.3	3.4
1963.....	7.8	46.6	(D)	(D)	(D)	(D)
Dallas-Fort Worth:						
1977.....	269.9	3,508.9	253.9	3,219.2	16.0	289.7
1972.....	230.0	2,022.5	220.9	1,911.8	9.3	110.7
1967.....	227.3	1,579.5	221.2	1,523.0	6.1	56.5
1963.....	156.9	915.6	(D)	(D)	(D)	(D)
El Paso:						
1977.....	29.1	251.5	28.1	234.2	1.0	17.3
1972.....	26.0	157.7	25.8	155.5	.2	2.2
1967.....	18.9	85.1	18.9	84.9	(Z)	.2
1963.....	14.9	62.0	(D)	(D)	(D)	(D)
Galveston-Texas City:						
1977.....	11.3	206.1	11.3	205.8	(Z)	.3
1972.....	10.9	124.3	10.6	119.8	.3	4.5
1967.....	10.1	88.4	9.7	84.1	.4	4.3
1963.....	9.5	71.6	(D)	(D)	(D)	(D)
Houston:						
1977.....	210.1	3,362.7	186.4	2,821.3	23.7	541.4
1972.....	162.7	1,691.7	151.2	1,519.6	11.5	172.1
1967.....	138.1	1,061.8	126.9	941.9	11.2	119.9
1963.....	108.6	720.3	102.5	661.9	6.1	58.4
Killeen-Temple:						
1977.....	5.8	55.3	5.8	54.9	(Z)	.4
1972.....	5.1	33.8	5.1	33.5	(Z)	.3

See footnotes at end of table.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years—Con.

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
STANDARD METROPOLITAN STATISTICAL AREAS--Con.						
Laredo:						
1977.....	1.5	11.9	(D)	(D)	(D)	(D)
1972.....	1.2	6.4	(D)	(D)	(D)	(D)
1967.....	.7	2.7	.7	2.7	-	-
1963.....	.9	2.7	.9	2.7	-	-
Longview:						
1977.....	15.9	206.3	15.9	205.8	(Z)	.5
1972.....	13.9	128.8	(NA)	(NA)	(NA)	(NA)
Lubbock:						
1977.....	12.9	137.8	12.8	137.1	.1	.7
1972.....	7.1	50.6	(D)	(D)	(D)	(D)
1967.....	6.0	32.2	(D)	(D)	(D)	(D)
1963.....	5.4	25.4	(D)	(D)	(D)	(D)
McAllen-Pharr-Edinburg:						
1977.....	5.5	41.1	5.4	40.2	.1	.9
1972.....	3.1	15.6	(D)	(D)	(D)	(D)
1967.....	2.4	9.3	(D)	(D)	(D)	(D)
Midland:						
1977.....	2.0	23.4	1.7	18.6	.3	4.8
1972.....	1.4	10.3	1.2	8.5	.2	1.8
1967.....	.7	4.4	(D)	(D)	(D)	(D)
1963.....	.5	3.7	(D)	(D)	(D)	(D)
Odessa:						
1977.....	5.9	86.7	5.4	76.3	.5	10.4
1972.....	4.0	37.2	3.5	31.5	.5	5.7
1967.....	3.4	25.7	(D)	(D)	(D)	(D)
1963.....	2.2	13.5	(D)	(D)	(D)	(D)
San Angelo:						
1977.....	4.8	42.6	4.8	42.3	(Z)	.3
1972.....	3.5	22.4	(D)	(D)	(D)	(D)
1967.....	3.2	15.6	(D)	(D)	(D)	(D)
1963.....	2.0	7.8	2.0	7.8	-	-
San Antonio:						
1977.....	40.1	399.2	39.1	381.5	1.0	17.7
1972.....	34.9	229.7	34.6	224.7	.3	5.0
1967.....	27.4	142.9	(D)	(D)	(D)	(D)
1963.....	23.6	102.4	(D)	(D)	(D)	(D)
Sherman-Denison:						
1977.....	10.5	120.1	10.5	119.5	(Z)	.6
1972.....	8.3	59.7	8.2	59.7	-	-
1967.....	6.7	33.2	(D)	(D)	(D)	(D)
Texarkana, Tex.-Texarkana, Ark.:						
1977.....	7.7	87.5	7.7	87.5	-	-
1972.....	9.0	66.6	9.0	66.6	-	-
Tyler:						
1977.....	12.1	144.6	12.1	144.4	(Z)	.2
1972.....	12.0	95.1	(D)	(D)	(D)	(D)
1967.....	8.8	48.9	8.8	48.9	-	-
1963.....	7.2	34.1	7.2	34.1	-	-
Waco:						
1977.....	14.8	154.7	14.5	151.3	.3	3.4
1972.....	12.5	87.5	(D)	(D)	(D)	(D)
1967.....	11.0	66.0	(D)	(D)	(D)	(D)
1963.....	9.5	47.9	(D)	(D)	(D)	(D)
Wichita Falls:						
1977.....	7.9	84.5	7.9	84.2	(Z)	.3
1972.....	5.0	32.6	(D)	(D)	(D)	(D)
1967.....	3.6	17.6	(D)	(D)	(D)	(D)
1963.....	3.2	14.9	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers									Comparative indexes and U.S. employment			
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	Index of State em- ploy- ment change (1977= 100)	United States			
														Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)		
TEXAS																	
1977 CENSUS.	18 107	5 644	886.4	11 653.1	600.7	1 190.1	6 626.4	33 080.9	60 395.8	92 735.7	5 194.7	4.52	100	100	19 596.9		
1976 ASM....	(NA)	(NA)	824.6	9 852.0	560.3	1 113.6	5 661.1	27 600.0	49 990.5	77 120.1	4 768.1	4.40	93	96	18 753.0		
1975 ASM....	(NA)	(NA)	776.7	8 656.1	529.9	1 055.6	4 960.3	24 786.1	41 427.0	65 458.0	3 804.6	4.24	88	94	18 302.2		
1974 ASM....	(NA)	(NA)	803.9	8 084.8	562.7	1 123.9	4 741.1	23 398.9	36 849.0	58 948.6	3 035.9	4.05	91	102	19 844.8		
1973 ASM....	(NA)	(NA)	786.6	7 065.7	560.2	1 108.7	4 277.4	17 688.0	25 544.9	42 982.3	1 534.0	3.95	89	102	19 897.9		
1972 CENSUS.	14 422	4 790	736.1	6 344.6	516.6	1 030.5	3 763.3	15 228.0	21 355.5	36 647.9	1 345.7	3.87	83	98	19 028.7		
1971 ASM....	(NA)	(NA)	694.0	5 689.8	480.3	955.5	3 300.5	13 793.9	19 289.8	33 034.2	1 506.3	3.78	78	94	18 363.1		
1970 ASM....	(NA)	(NA)	722.5	5 584.4	503.4	1 011.3	3 286.5	13 094.8	18 433.0	31 291.1	1 619.1	3.76	82	99	19 217.2		
1969 ASM....	(NA)	(NA)	728.3	5 327.3	515.0	1 051.7	3 222.8	12 922.9	18 520.0	31 308.1	1 490.3	3.64	82	103	20 035.5		
1968 ASM....	(NA)	(NA)	688.8	4 875.4	486.0	1 003.8	2 948.5	11 974.5	17 515.9	29 376.0	1 490.2	3.53	78	100	19 527.6		
1967 CENSUS.	12 722	4 039	657.5	4 340.4	466.4	958.5	2 617.0	10 922.4	15 785.0	26 498.1	1 408.8	3.40	74	99	19 323.2		
1966 ASM....	(NA)	(NA)	607.6	3 773.5	430.9	899.9	2 313.4	9 725.4	14 276.6	23 824.1	1 215.8	3.19	69	98	19 024.5		
1965 ASM....	(NA)	(NA)	566.9	3 365.1	400.7	832.6	2 065.2	8 700.2	12 790.6	21 330.1	1 006.2	3.15	64	92	18 010.2		
1964 ASM....	(NA)	(NA)	535.9	3 130.5	375.9	782.5	1 894.6	7 864.8	11 603.9	19 350.9	745.6	3.10	60	89	17 268.5		
1963 CENSUS.	11 581	3 478	513.8	2 890.5	361.4	741.4	1 744.0	7 119.5	(NA)	(NA)	567.3	3.03	58	87	16 958.4		
HOUSTON-GALVESTON SCSA																	
1977 CENSUS.	4 211	1 386	221.3	3 568.8	134.5	273.9	1 860.9	11 305.1	22 553.3	33 565.6	2 576.7	1.13	100	100	19 596.9		
1972 CENSUS.	3 278	1 102	173.6	1 816.0	110.6	222.5	965.0	4 867.0	6 812.5	11 638.7	475.5	.90	77	98	19 028.7		
DALLAS-FORT WORTH SMSA																	
1977 CENSUS.	5 505	1 750	269.9	3 508.9	171.7	339.8	1 814.4	7 869.1	8 460.5	16 116.9	500.8	1.38	100	100	19 596.9		
1976 ASM....	(NA)	(NA)	258.7	3 024.1	164.4	327.8	1 569.7	6 849.1	7 510.8	14 257.6	398.9	1.38	96	96	18 753.0		
1975 ASM....	(NA)	(NA)	239.9	2 660.7	152.5	309.5	1 375.8	5 643.7	6 605.5	12 064.3	356.5	1.31	89	94	18 302.2		
1974 ASM....	(NA)	(NA)	252.8	2 544.0	166.5	331.9	1 378.1	5 194.6	5 955.9	10 892.5	333.5	1.27	94	102	19 844.8		
1973 ASM....	(NA)	(NA)	250.0	2 307.9	169.6	335.7	1 292.6	4 569.6	5 181.4	9 740.3	261.7	1.26	93	102	19 897.9		
1972 CENSUS.	4 231	1 495	230.0	2 023.5	152.4	302.7	1 119.1	4 075.7	4 338.6	8 496.8	213.6	1.21	85	98	19 028.7		
1971 ASM....	(NA)	(NA)	227.3	1 903.5	146.5	294.5	1 008.1	3 655.5	4 185.9	7 918.5	192.8	1.24	84	94	18 363.1		
1970 ASM....	(NA)	(NA)	255.3	2 032.4	168.1	337.0	1 105.4	3 856.1	4 353.3	8 138.4	196.0	1.33	95	99	19 217.2		
1969 ASM....	(NA)	(NA)	262.3	2 021.8	177.0	370.0	1 149.3	3 787.9	4 473.4	8 257.2	244.8	1.31	97	103	20 035.5		
1968 ASM....	(NA)	(NA)	249.5	1 844.6	168.3	356.1	1 056.3	3 528.0	4 555.7	8 045.3	198.0	1.28	92	100	19 527.6		
1967 CENSUS.	3 485	2 151	227.3	1 579.5	155.7	329.1	899.8	3 011.5	3 820.2	6 799.4	234.9	1.18	84	99	19 323.2		
1966 ASM....	(NA)	(NA)	204.0	1 325.8	138.1	295.0	749.7	2 567.9	3 263.9	5 761.3	181.8	1.07	76	98	19 024.5		
1965 ASM....	(NA)	(NA)	181.9	1 120.8	120.6	256.1	622.8	2 216.6	2 749.1	4 927.1	140.0	1.01	67	92	18 010.2		
1964 ASM....	(NA)	(NA)	169.2	1 028.8	110.4	236.0	561.7	2 021.8	2 365.8	4 380.3	109.6	.98	63	89	17 268.5		
1963 CENSUS.	3 057	1 044	156.9	915.6	103.8	219.1	500.8	(D)	(NA)	(NA)	106.1	.93	58	87	16 958.4		
HOUSTON SMSA																	
1977 CENSUS.	4 081	1 342	210.1	3 362.7	126.5	257.4	1 718.7	9 844.4	18 247.0	27 888.0	2 451.5	1.07	100	100	19 596.9		
1976 ASM....	(NA)	(NA)	187.0	2 775.8	113.1	233.8	1 439.0	8 047.3	15 110.7	22 887.6	2 351.8	1.00	89	96	18 753.0		
1975 ASM....	(NA)	(NA)	183.0	2 523.1	112.5	234.0	1 320.2	7 302.6	12 708.8	19 763.0	1 763.0	1.00	87	94	18 302.2		
1974 ASM....	(NA)	(NA)	178.2	2 246.2	112.1	236.2	1 176.4	7 101.3	11 534.1	18 157.1	1 255.0	.90	85	102	19 844.8		
1973 ASM....	(NA)	(NA)	170.6	1 834.9	109.5	217.0	1 004.6	4 797.2	6 939.2	11 671.2	530.3	.86	81	102	19 897.9		
1972 CENSUS.	3 170	1 063	162.7	1 691.7	102.8	206.2	881.5	4 179.4	5 769.3	9 902.0	441.6	.86	77	98	19 028.7		
1971 ASM....	(NA)	(NA)	152.8	1 512.3	94.7	190.8	786.1	3 783.6	5 219.7	8 958.8	600.6	.83	73	94	18 363.1		
1970 ASM....	(NA)	(NA)	152.6	1 389.6	97.0	199.5	757.2	3 460.1	4 788.2	8 170.9	732.4	.79	73	99	19 217.2		
1969 ASM....	(NA)	(NA)	146.5	1 224.2	96.3	197.5	696.8	3 393.9	4 438.6	7 764.1	567.7	.73	70	103	20 035.5		
1968 ASM....	(NA)	(NA)	141.5	1 150.6	92.0	191.1	644.4	3 200.2	4 160.0	7 345.4	561.9	.72	67	100	19 527.6		
1967 CENSUS.	2 621	892	138.1	1 061.8	88.4	184.8	586.1	2 873.0	3 923.5	6 739.8	499.1	.71	66	99	19 323.2		
1966 ASM....	(NA)	(NA)	119.2	869.9	77.9	164.5	502.6	2 496.6	3 605.6	6 084.7	398.5	.63	57	98	19 024.5		
1965 ASM....	(NA)	(NA)	115.8	807.8	77.4	162.9	473.1	2 292.8	3 290.1	5 532.8	359.3	.64	55	92	18 010.2		
1964 ASM....	(NA)	(NA)	113.6	774.4	74.3	156.9	444.1	2 135.0	3 065.1	5 173.3	230.5	.66	54	89	17 268.5		
1963 CENSUS.	2 261	727	108.6	720.3	70.3	145.4	403.8	1 918.4	(NA)	(NA)	160.2	.64	52	87	16 958.4		
SAN ANTONIO SMSA																	
1977 CENSUS.	944	286	40.1	399.2	28.7	55.7	231.8	905.3	1 130.8	2 017.7	92.5	.21	100	100	19 596.9		
1976 ASM....	(NA)	(NA)	36.0	338.7	24.9	49.8	198.6	803.2	1 030.7	1 825.5	70.9	.19	90	96	18 753.0		
1975 ASM....	(NA)	(NA)	33.4	292.1	22.7	46.8	166.4	688.7	898.1	1 590.1	75.9	.18	83	94	18 302.2		
1974 ASM....	(NA)	(NA)	38.9	297.3	27.0	54.9	174.4	661.0	837.5	1 471.0	53.2	.20	97	102	19 844.8		
1973 ASM....	(NA)	(NA)	36.3	250.8	26.3	51.9	151.7	519.5	613.1	1 122.3	44.2	.18	90	102	19 897.9		
1972 CENSUS.	751	261	34.9	229.7	25.3	50.7	142.3	482.0	529.3	1 003.0	27.8	.18	87	98	19 028.7		

(NA) Not available.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
TEXAS									
1977 CENSUS.....	13 147	68	1 981	5.57	65	78	37 322	35	27.80
1976 ASM.....	11 948	68	1 988	5.08	65	78	33 471	36	24.78
1975 ASM.....	11 145	68	1 992	4.70	63	77	31 912	35	23.48
1974 ASM.....	10 057	70	1 997	4.22	63	76	29 107	35	20.82
1973 ASM.....	8 983	71	1 979	3.86	59	76	22 487	40	15.95
1972 CENSUS.....	8 619	70	1 995	3.65	58	76	20 687	42	14.78
1971 ASM.....	8 199	69	1 989	3.45	58	76	19 876	41	14.44
1970 ASM.....	7 729	70	2 009	3.25	59	77	18 124	43	12.95
1969 ASM.....	7 315	71	2 042	3.06	59	76	17 744	41	12.29
1968 ASM.....	7 078	71	2 065	2.94	60	76	17 385	41	11.93
1967 CENSUS.....	6 601	71	2 055	2.73	60	76	16 612	40	11.40
1966 ASM.....	6 211	71	2 088	2.57	60	76	16 006	39	10.81
1965 ASM.....	5 936	71	2 078	2.48	60	76	15 347	39	10.45
1964 ASM.....	5 842	70	2 082	2.42	60	76	14 676	40	10.05
1963 CENSUS.....	5 626	70	2 051	2.35	(NA)	(NA)	13 857	41	9.60
HOUSTON-GALVESTON SCSA									
1977 CENSUS.....	16 124	61	2 036	6.79	67	78	51 077	32	41.27
1972 CENSUS.....	10 460	64	2 012	4.34	59	74	28 036	37	21.87
DALLAS-FORT WORTH SMSA									
1977 CENSUS.....	13 001	64	1 979	5.34	52	74	29 155	45	23.16
1976 ASM.....	11 690	64	1 994	4.79	53	74	26 475	44	20.89
1975 ASM.....	11 091	64	2 030	4.45	55	77	23 525	47	18.23
1974 ASM.....	10 063	66	1 993	4.15	55	78	20 548	49	15.65
1973 ASM.....	9 232	68	1 979	3.85	53	77	18 278	51	13.61
1972 CENSUS.....	8 798	66	1 986	3.70	51	75	17 720	50	13.46
1971 ASM.....	8 374	64	2 010	3.42	53	77	16 082	52	12.41
1970 ASM.....	7 961	66	2 005	3.28	53	78	15 104	53	11.44
1969 ASM.....	7 708	67	2 090	3.11	54	79	14 441	53	10.24
1968 ASM.....	7 393	67	2 116	2.97	57	80	14 140	52	9.91
1967 CENSUS.....	6 949	68	2 114	2.73	56	79	13 249	52	9.15
1966 ASM.....	6 499	68	2 136	2.54	57	80	12 588	52	8.70
1965 ASM.....	6 162	66	2 124	2.43	56	79	12 186	51	8.66
1964 ASM.....	6 080	65	2 138	2.38	54	77	11 949	51	8.57
1963 CENSUS.....	5 836	66	2 111	2.29	(NA)	(NA)	(D)	(D)	(D)
HOUSTON SMSA									
1977 CENSUS.....	16 008	60	2 035	6.68	65	77	46 865	34	38.24
1976 ASM.....	14 844	60	2 067	6.15	66	78	43 034	34	34.42
1975 ASM.....	13 787	61	2 080	5.64	64	77	39 905	35	31.21
1974 ASM.....	12 605	63	2 107	4.98	64	76	39 850	32	30.06
1973 ASM.....	10 756	64	1 982	4.63	59	75	28 120	38	22.11
1972 CENSUS.....	10 398	63	2 006	4.27	58	75	25 688	40	20.27
1971 ASM.....	9 897	62	2 015	4.12	58	75	24 762	40	19.83
1970 ASM.....	9 106	64	2 057	3.80	59	76	22 674	40	17.34
1969 ASM.....	8 356	66	2 051	3.53	57	73	23 167	36	17.18
1968 ASM.....	8 131	65	2 077	3.37	57	72	22 616	36	16.75
1967 CENSUS.....	7 689	64	2 090	3.17	58	74	20 804	37	15.55
1966 ASM.....	7 298	65	2 112	3.06	59	74	20 945	35	15.18
1965 ASM.....	6 976	67	2 105	2.90	59	74	19 800	35	14.07
1964 ASM.....	6 817	65	2 112	2.83	59	74	18 794	36	13.61
1963 CENSUS.....	6 633	65	2 068	2.78	(NA)	(NA)	17 665	38	13.19
SAN ANTONIO SMSA									
1977 CENSUS.....	9 943	71	1 941	4.16	56	76	22 551	44	16.26
1976 ASM.....	9 408	69	2 000	3.99	56	75	22 311	42	16.13
1975 ASM.....	8 746	68	2 062	3.56	56	75	20 620	42	14.72
1974 ASM.....	7 643	69	2 033	3.18	57	77	16 992	45	12.04
1973 ASM.....	6 909	72	1 973	2.92	55	77	14 311	48	10.01
1972 CENSUS.....	6 582	72	2 004	2.81	53	76	13 811	48	9.51

Note: For qualifications to data, see footnotes on table 2a.

(D) Withheld to avoid disclosing operations of individual companies. (NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹ -----	number -----	18 107	14 422
With 1 to 19 employees -----	do -----	12 463	9 632
With 20 to 99 employees -----	do -----	3 875	3 296
With 100 employees or more -----	do -----	1 769	1 494
All employees, average for year ¹ -----	1,000 -----	886.4	735.6
Payroll for year, all employees ¹ -----	mil. dollars --	11 653.1	6 340.0
Production workers:			
Average for year -----	1,000 -----	600.7	516.4
March -----	do -----	584.3	506.3
May -----	do -----	595.2	514.3
August -----	do -----	604.9	518.7
November -----	do -----	616.2	526.4
Hours -----	millions -----	1 190.1	1 030.1
January to March -----	do -----	285.6	250.5
April to June -----	do -----	297.3	259.6
July to September -----	do -----	302.1	257.1
October to December -----	do -----	304.1	262.9
Wages -----	mil. dollars --	6 626.4	3 762.0
Cost of materials, etc. ² -----	do -----	60 395.8	21 345.5
Materials, parts, containers, etc., consumed -----	do -----	53 008.0	19 197.8
Resales -----	do -----	2 863.3	981.6
Fuels consumed -----	do -----	2 594.5	509.7
Purchased electric energy -----	do -----	1 016.4	282.1
Contract work -----	do -----	913.6	374.3
Value of shipments, including resales ² -----	do -----	92 735.7	36 631.1
Value of resales -----	do -----	3 378.5	1 162.9
Value added by manufacture -----	do -----	33 080.9	15 253.0
Manufacturers' inventories:			
Beginning of year -----	do -----	9 804.4	4 686.3
Finished products -----	do -----	3 562.1	1 705.7
Work in process -----	do -----	2 835.4	1 523.9
Materials, supplies, fuel, etc. -----	do -----	3 406.8	1 456.8
End of year -----	do -----	10 813.0	4 661.2
Finished products -----	do -----	3 896.4	1 667.5
Work in process -----	do -----	3 261.6	1 490.8
Materials, supplies, fuel, etc. -----	do -----	3 654.9	1 502.9
Capital expenditures for plant and equipment -----	do -----	5 345.9	1 396.1
New capital expenditures -----	do -----	5 194.7	1 345.5
New buildings and other structures -----	do -----	844.1	358.5
New machinery and equipment -----	do -----	4 350.6	987.0
Used capital expenditures -----	do -----	151.2	50.6

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Including central administrative offices and auxiliaries (for definition, see appendix B).

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	393.1	3
Beginning of year.....	31,721.0	1	Buildings and other structures.....	146.7	4
New capital expenditures.....	5,229.7	1	Machinery and equipment.....	246.0	3
Used capital expenditures.....	163.4	5			
Retirements.....	915.4	2	Depreciation charges during 1977:		
End of year.....	36,198.6	1	Total.....	2,117.0	1
Buildings and other structures:			Buildings and other structures.....	352.0	1
Beginning of year.....	7,396.5	1	Machinery and equipment.....	1,765.0	1
New capital expenditures.....	829.5	2			
Used capital expenditures.....	37.9	9	Supplemental labor costs:		
Retirements.....	163.7	2	Total.....	2,003.4	1
End of year.....	8,100.2	1	Legal costs.....	845.2	1
Machinery and equipment:			Voluntary costs.....	1,158.1	1
Beginning of year.....	24,324.5	1			
New capital expenditures.....	4,400.2	1	Purchased services:		
Automobiles, trucks, etc., for highway use...	107.6	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	59.9	(NA)	Buildings and other structures.....	(157.3)	27
All other.....	3,589.6	(NA)	Response coverage ratio (percent).....	61	(X)
New machinery and equipment, n.s.k.....	643.0	(NA)	Machinery.....	(589.6)	49
Used capital expenditures.....	125.5	5	Response coverage ratio (percent).....	62	(X)
Retirements.....	752.8	1	Cost of purchased communication services.....	(125.3)	38
End of year.....	28,098.1	1	Response coverage ratio (percent).....	62	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

(A) Indicates standard errors of 100 percent or more. Figures in parentheses have standard errors of 15 percent of more.

(NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E¹	1977											1972	
		All establishments²		All employees²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als³ (million dollars)	Value of ship- ments³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
Texas-----	-	18 107	5 644	886.4	11 653.1	600.7	1 190.1	6 626.4	33 080.9	60 395.8	92 735.7	5 194.7	736.1	15 228.0
STANDARD CONSOLIDATED STATISTICAL AREAS														
Houston-Galveston -----	E1	4 211	1 386	221.3	3 568.8	134.5	273.9	1 860.9	11 305.1	22 553.3	33 565.6	2 576.7	170.6	4 867.0
STANDARD METROPOLITAN STATISTICAL AREAS														
Abilene -----	-	141	43	5.8	51.4	4.1	8.2	33.5	106.9	510.1	620.3	8.1	5.2	62.5
Amarillo -----	-	211	60	7.7	94.0	5.5	11.2	59.7	474.8	1 534.0	2 008.3	16.1	5.4	68.8
Austin -----	-	527	135	20.7	259.0	11.4	21.6	100.1	553.6	479.6	1 001.6	75.5	14.0	250.3
Beaumont-Port Arthur-Orange -----	-	344	121	38.3	683.3	27.6	55.1	455.8	2 626.3	8 401.6	10 959.0	556.0	37.6	1 034.0
Brownsville-Harlingen-San Benito -----	-	151	56	9.0	74.3	6.9	13.6	47.7	201.3	286.9	484.8	19.2	6.9	101.0
Bryan-College Station -----	E1	63	22	2.1	22.2	1.6	3.3	15.4	55.5	72.2	127.3	4.9	2.0	27.8
Corpus Christi -----	-	248	73	12.1	178.6	8.2	16.6	109.5	734.7	3 183.1	3 875.2	398.1	10.9	282.0
Dallas-Fort Worth -----	-	5 505	1 750	269.9	3 508.9	171.7	339.8	1 814.4	7 869.1	8 460.5	16 116.9	500.8	230.0	4 075.7
El Paso -----	-	407	138	29.1	251.5	23.2	42.6	169.7	771.7	1 543.1	2 313.9	65.6	26.0	345.7
Galveston-Texas City -----	-	130	44	11.3	206.1	8.0	16.5	142.2	1 460.7	4 306.3	5 677.6	125.2	10.9	687.5
Houston -----	E2	4 081	1 342	210.1	3 362.7	126.5	257.4	1 718.7	9 844.4	18 247.0	27 888.0	2 451.5	162.7	4 179.4
Killeen-Temple -----	-	116	47	5.8	55.3	4.4	9.1	37.8	159.6	169.3	332.0	(D)	5.1	82.1
Laredo -----	-	60	17	1.5	11.9	1.1	2.1	7.4	26.8	55.4	85.1	0.9	1.2	10.5
Longview -----	-	247	96	15.9	206.3	12.0	23.9	139.2	641.2	761.9	1 387.4	52.4	13.9	295.9
Lubbock -----	-	290	68	12.9	137.8	9.3	18.1	76.5	349.1	487.1	813.3	37.5	7.1	114.9
McAllen-Pharr-Edinburg -----	-	169	45	5.5	41.1	4.4	8.6	29.1	115.2	158.4	271.8	9.9	3.1	54.1
Midland -----	E1	94	24	2.0	23.4	1.3	2.4	11.1	53.8	47.3	99.9	7.6	1.4	23.0
Odessa -----	-	220	67	5.9	86.7	4.0	8.4	51.4	232.9	508.0	734.6	(D)	4.0	91.8
San Angelo -----	-	100	27	4.8	42.6	3.4	6.1	25.0	126.3	158.9	291.3	6.2	3.5	78.1
San Antonio -----	-	944	285	40.1	399.2	28.7	55.7	231.8	905.3	1 130.8	2 017.7	92.5	34.9	482.0
Sherman-Denison -----	-	123	57	10.5	120.1	7.8	15.5	76.9	307.0	500.3	792.7	33.2	8.3	179.2
Texarkana, Tex.-Texarkana, Ark. -----	E6	135	40	7.7	87.5	6.0	10.6	55.6	228.9	246.6	481.7	16.2	9.0	106.1
Portion in Arkansas -----	E4	60	14	4.1	50.5	3.2	6.0	36.2	143.8	176.8	323.8	13.5	3.0	71.0
Portion in Texas -----	E1	75	26	3.6	37.0	2.8	4.6	19.3	85.1	69.8	157.9	2.7	6.0	35.1
Tyler -----	-	171	51	12.1	144.6	9.6	18.4	104.1	379.7	484.6	857.1	18.2	12.0	226.7
Waco -----	-	261	112	14.8	154.7	10.9	21.1	99.7	392.6	470.7	858.0	39.1	12.5	193.0
Wichita Falls -----	-	177	54	7.9	84.5	6.3	11.9	57.2	213.2	205.6	416.6	38.8	5.0	68.0
COUNTIES														
Anderson -----	-	39	17	1.8	19.2	1.5	2.9	13.5	33.7	108.8	140.3	(D)	1.4	20.9
Andrews -----	-	13	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Angelina -----	-	127	38	8.6	98.7	6.8	14.3	73.3	263.8	266.0	532.8	21.7	8.5	149.6
Aransas -----	-	15	4	0.4	4.0	0.3	0.6	3.1	7.9	35.8	43.6	(D)	(D)	(D)
Archer -----	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Armstrong -----	-	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Atascosa -----	E5	10	1	0.1	0.5	0.1	0.1	0.4	1.5	2.2	3.8	0.1	(Z)	(NA)
Austin -----	-	23	5	0.5	6.6	0.4	0.7	4.2	12.3	15.7	28.2	1.5	0.2	3.2
Bailey -----	E1	11	1	0.1	0.8	0.1	0.1	0.6	1.8	2.8	4.0	(D)	(Z)	(NA)
Bandera -----	E1	7	1	0.1	0.5	0.1	0.1	0.3	1.1	0.5	1.6	(D)	(D)	(D)
Bastrop -----	-	27	9	0.7	5.2	0.6	1.2	3.8	11.0	10.0	21.1	1.4	0.7	7.1
Baylor -----	E3	4	-	(Z)	0.2	(Z)	(Z)	0.1	0.4	1.0	1.4	(Z)	(Z)	(NA)
Bee -----	E2	10	2	0.1	0.8	(Z)	0.1	0.3	1.9	1.6	3.5	(D)	0.1	0.8
Bell -----	-	95	41	5.4	52.3	4.1	8.5	35.7	154.8	163.6	321.6	(D)	4.7	79.3
Bexar -----	-	858	259	34.2	349.3	23.7	45.6	194.7	799.2	964.6	1 745.6	78.6	30.9	448.2
Blanco -----	E1	5	1	(Z)	0.4	(Z)	0.1	0.3	0.8	1.4	2.2	(D)	(D)	(D)
Borden -----	-	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Bosque -----	E1	21	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	7.9
Bowie -----	-	75	26	3.6	37.0	2.8	4.6	19.3	85.1	69.8	157.9	2.7	6.0	35.1
Brazoria -----	-	145	53	13.1	253.8	7.0	14.1	118.5	1 313.4	2 656.4	3 979.0	507.0	10.4	582.0
Brazos -----	E1	63	22	2.1	22.2	1.6	3.3	15.4	55.5	72.2	127.3	4.9	2.0	27.8
Brewster -----	E0	6	-	(Z)	0.1	(Z)	(Z)	0.1	0.2	0.1	0.3	(Z)	0.1	0.8
Briscoe -----	-	7	-	(Z)	0.1	(Z)	(Z)	0.1	0.3	0.2	0.5	(D)	(D)	(D)
Brooks -----	E4	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Brown -----	-	47	16	2.0	24.3	1.5	3.3	16.4	110.8	108.9	216.0	6.4	1.9	57.7
Burleson -----	-	9	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Burnet -----	E1	18	3	0.2	2.6	0.2	0.4	1.8	4.8	3.1	7.8	0.3	0.1	2.1
Caldwell -----	-	15	5	0.4	2.9	0.4	0.8	2.3	6.1	24.5	30.4	0.5	0.4	2.9
Calhoun -----	-	23	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Callahan -----	E0	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Cameron -----	-	151	56	9.0	74.3	6.9	13.6	47.7	201.3	286.9	484.8	19.2	6.9	101.0
Camp -----	-	14	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	3.7
Carson -----	-	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cass -----	-	31	7	1.9	29.1	1.0	2.1	10.7	53.4	55.2	108.9	(D)	1.0	4.6
Castro -----	-	7	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Chambers -----	-	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cherokee -----	E1	114	40	3.1	24.5	2.6	4.9	18.1	49.0	50.0	97.7	(D)	3.1	34.8
Childress -----	-	10	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Clay -----	E1	9	2	0.2	1.7	0.2	0.4	1.1	4.2	10.9	15.1	(D)	(D)	(D)
Cochran -----	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Coke -----	E1	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Coleman -----	-	14	4	0.5	3.5	0.4	0.7	2.5	6.1	5.1	11.2	(D)	0.2	2.0
Collin -----	-	131	43	4.7	48.1	3.2	6.4	26.6	121.7	175.8	296.0	18.1	4.0	52.5
Collingsworth -----	E0	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Colorado -----	E2	19	4	0.5	4.1	0.4	0.8	3.1	5.7	10.6	16.3	(D)	0.2	1.6
Comal -----	-	42	15	2.8	23.7	2.4	5.0	18.7	39.7	55.5	96.6	5.6	2.9	24.4
Comanche -----	-	16	4	0.3	1.9	0.2	0.3	1.1	12.9	15.9	28.7	(D)	0.3	7.3
Concho -----	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cooke -----	-	56	20	2.7	29.8	2.3	4.3	20.4	79.5	67.5	144.6	(D)	2.2	31.7

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972			
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)							
COUNTIES—Con.															
Coryell -----	E1	21	6	0.4	3.0	0.4	0.6	2.1	4.9	5.6	10.4	0.2	0.3	2.8	
Cottle -----	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Crane -----	E1	4	1	(Z)	0.7	(Z)	0.1	0.6	1.4	1.2	2.6	(D)	(D)	(D)	
Crockett -----	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Crosby -----	E4	8	1	0.1	0.6	0.1	0.1	0.5	1.4	2.0	3.4	(D)	0.1	1.0	
Culberson -----	-	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Dallam -----	-	11	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	2.2	
Dallas -----	-	3 235	1 011	163.7	2 138.8	98.0	193.4	995.2	4 421.0	4 255.3	8 635.7	280.7	144.0	2 451.2	
Dawson -----	E2	15	5	0.4	2.9	0.3	0.6	2.3	-0.1	16.4	16.2	(D)	0.4	2.0	
Deaf Smith -----	-	31	8	1.1	14.7	0.9	1.8	11.9	33.0	210.8	246.0	(D)	0.8	23.8	
Delta -----	-	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Denton -----	-	123	36	5.7	51.4	4.0	7.8	30.9	128.6	116.2	244.0	5.9	4.2	56.9	
De Witt -----	-	19	8	0.9	7.4	0.7	1.3	4.4	17.3	28.2	42.9	2.3	0.7	9.4	
Dickens -----	E0	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Dimmit -----	-	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Donley -----	E0	5	-	(Z)	0.2	(Z)	(Z)	0.1	0.4	0.4	0.8	(Z)	(Z)	(NA)	
Duval -----	E1	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(Z)	
Eastland -----	E1	35	12	0.8	6.4	0.7	1.2	4.9	14.2	13.8	28.0	0.7	0.7	9.1	
Ector -----	-	220	67	5.9	86.7	4.0	8.4	51.4	232.9	508.0	734.6	(D)	4.0	91.8	
Edwards -----	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Ellis -----	-	93	41	5.7	62.8	4.8	9.3	46.2	183.0	199.1	384.9	10.8	4.0	84.6	
El Paso -----	-	407	138	29.1	251.5	23.2	42.6	169.7	771.7	1 543.1	2 313.9	55.8	28.0	345.7	
Erath -----	-	29	5	0.9	6.8	0.7	1.2	4.5	20.8	18.9	37.9	(D)	0.3	3.0	
Falls -----	-	14	6	0.6	3.9	0.5	0.8	2.8	8.2	19.3	28.3	0.2	0.4	5.3	
Fannin -----	E1	32	8	1.1	11.9	0.9	1.7	8.5	35.8	49.4	84.6	(D)	1.1	24.2	
Fayette -----	-	34	7	0.5	4.5	0.4	0.9	3.1	13.1	12.0	24.7	0.9	0.4	7.0	
Fisher -----	-	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Floyd -----	E4	9	1	0.1	1.0	0.1	0.1	0.6	1.8	2.9	4.7	0.1	(Z)	(NA)	
Forard -----	E0	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Fort Bend -----	-	76	34	6.6	93.8	4.6	9.5	58.9	223.1	288.3	506.0	17.0	7.0	151.9	
Franklin -----	E1	9	4	0.2	1.3	0.2	0.3	1.0	3.2	1.5	4.7	0.1	0.3	3.8	
Freestone -----	E5	11	2	0.1	1.0	0.1	0.2	0.6	2.5	3.2	5.6	0.1	0.1	1.2	
Frio -----	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Gaines -----	-	11	2	0.2	1.7	0.1	0.3	1.4	4.0	7.0	10.9	0.2	(D)	(D)	
Galveston -----	-	130	44	11.3	206.1	8.0	16.5	142.2	1 460.7	4 306.3	5 677.6	125.2	10.9	687.5	
Garza -----	-	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Gillespie -----	E1	21	4	0.3	2.5	0.3	0.6	2.0	3.9	13.6	17.5	1.1	0.5	5.9	
Goliad -----	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Gonzales -----	E1	26	8	0.8	5.5	0.7	1.3	4.1	17.7	54.0	70.9	3.6	0.8	10.2	
Gray -----	-	37	12	2.2	31.2	1.3	3.1	17.7	121.7	136.5	260.3	(D)	2.1	57.0	
Grayson -----	-	123	57	10.5	120.1	7.8	15.5	76.9	307.0	500.3	792.7	33.2	8.3	179.2	
Gregg -----	-	181	67	11.5	159.0	8.7	17.4	108.0	542.6	644.7	1 175.7	45.3	8.0	170.0	
Grimes -----	-	21	9	0.7	7.4	0.6	1.1	5.3	18.9	26.2	44.0	5.4	0.4	5.6	
Guadalupe -----	-	44	12	3.1	26.1	2.6	5.1	18.4	66.4	110.7	175.5	8.3	1.1	9.4	
Hale -----	-	54	13	1.9	19.2	1.5	3.0	15.0	46.7	261.6	306.7	5.6	1.3	30.1	
Hall -----	E7	4	-	(Z)	0.1	(Z)	(Z)	(Z)	0.3	0.1	0.4	(Z)	(D)	(D)	
Hamilton -----	E5	14	3	0.2	1.9	0.2	0.4	1.2	5.0	7.3	12.2	0.2	0.2	3.6	
Hansford -----	-	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Hardeman -----	-	11	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	7.4	
Hardin -----	-	30	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	24.2	
Harris -----	-	3 707	1 214	187.2	2 975.6	112.6	229.1	1 516.1	8 220.1	15 136.8	23 152.8	1 917.6	143.5	3 405.3	
Harrison -----	-	66	29	4.4	47.3	3.3	6.6	31.2	98.6	117.2	211.7	7.1	5.9	125.9	
Hartley -----	-	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Haskell -----	E5	4	-	(Z)	0.2	(Z)	(Z)	0.1	0.5	0.5	0.9	(D)	(D)	(D)	
Hays -----	-	24	7	0.9	9.5	0.6	1.2	5.1	21.3	18.8	39.9	(D)	0.5	8.1	
Hemphill -----	E1	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Henderson -----	-	50	14	1.8	14.1	1.5	2.8	11.1	48.1	60.3	104.2	5.4	1.8	24.8	
Hidalgo -----	-	169	45	5.5	41.1	4.4	8.6	29.1	115.2	158.4	271.8	9.9	3.1	54.1	
Hill -----	-	37	11	1.2	9.9	0.9	1.7	6.2	28.9	37.3	67.1	1.2	1.5	21.0	
Hockley -----	-	17	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	1.6	
Hood -----	-	11	2	0.1	1.0	0.1	0.2	0.7	1.3	2.3	3.5	0.2	(D)	(D)	
Hopkins -----	-	34	13	2.0	18.8	1.4	3.0	13.2	46.7	61.8	108.3	2.9	1.7	23.7	
Houston -----	E1	41	9	1.1	10.6	0.9	1.7	7.8	22.8	33.3	56.2	2.6	0.7	14.0	
Howard -----	-	32	12	1.9	25.4	1.4	2.8	17.5	64.2	373.4	443.5	18.6	1.6	40.4	
Hunt -----	-	61	24	6.1	69.6	4.9	9.9	52.7	136.2	96.7	230.3	7.5	4.0	55.8	
Hutchinson -----	-	29	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Jack -----	-	5	2	0.1	1.3	0.1	0.2	1.0	3.6	3.7	7.3	0.1	0.1	0.6	
Jackson -----	-	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Jasper -----	-	60	12	3.0	41.7	2.3	4.7	28.8	104.8	143.3	246.5	17.1	2.9	56.2	
Jefferson -----	-	240	84	28.4	521.6	20.6	42.1	355.2	2 274.3	7 553.4	9 756.7	406.6	27.8	723.0	
Jim Hogg -----	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Jim Wells -----	-	24	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.8	
Johnson -----	-	101	31	3.7	34.4	2.9	5.3	23.7	88.5	125.6	209.4	4.7	3.5	44.5	
Jones -----	-	11	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	4.5	
Karnes -----	E2	12	3	0.2	2.6	0.2	0.4	1.7	12.1	11.8	24.3	(D)	0.2	3.4	
Kaufman -----	-	61	19	2.0	19.8	1.6	3.2	13.7	46.7	58.5	105.0	4.1	1.3	22.3	
Kendall -----	E2	9	1	0.1	0.6	(Z)	0.1	0.3	1.3	1.3	2.6	(Z)	(Z)	(NA)	
Kent -----	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Kerr -----	E4	25	4	0.9	8.5	0.6	1.2	4.6	21.3	12.6	32.9	1.6	0.2	2.4	
Kimble -----	-	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)	
Kleberg -----	E1	8	1	0.1	0.8	(Z)	0.1	0.3	2.0	1.3	3.3	(Z)	0.1	1.7	
Knox -----	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Lamar -----	-	57	22	4.9	51.8	4.0	7.5	37.2	215.4	251.3	467.9	10.5	4.3	107.2	

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E¹	1977										1972		
		All establishments²		All employees²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als³ (million dollars)	Value of ship- ments³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
COUNTIES—Con.														
Lamb	-	18	3	0.8	7.4	0.8	1.5	6.2	9.2	24.6	33.1	(D)	0.1	1.4
Lampasas	-	12	3	0.4	2.7	0.3	0.5	1.6	4.2	22.3	27.9	(D)	0.3	3.7
La Salle	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Lavaca	E1	38	12	1.6	12.4	1.0	1.9	6.5	26.6	36.1	60.1	0.6	0.6	4.8
Lee	-	11	3	0.3	2.5	0.2	0.4	1.3	4.8	11.2	16.1	1.2	0.2	2.5
Leon	-	12	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Liberty	E1	50	11	1.0	13.5	0.8	1.7	9.3	27.8	60.6	85.4	3.8	0.4	5.0
Limestone	-	18	11	0.9	6.2	0.7	1.4	4.8	10.1	16.4	26.8	0.3	0.6	5.9
Lipscomb	E0	4	-	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	(Z)	0.1	(D)	(D)	(D)
Live Oak	-	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Llano	E1	10	1	0.1	0.4	(Z)	0.1	0.3	0.8	1.2	2.0	(Z)	0.1	0.7
Lubbock	E1	290	68	12.9	137.8	9.3	18.1	76.5	349.1	487.1	813.3	37.5	7.1	114.9
Lynn	E0	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
McCulloch	-	9	2	0.3	2.2	0.3	0.5	1.7	7.7	7.5	14.1	(D)	0.2	2.6
McLennan	-	261	112	14.8	154.7	10.9	21.1	99.7	392.6	470.7	858.0	39.1	12.5	193.0
McMullen	-	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Madison	E2	7	1	(Z)	0.2	(Z)	0.1	0.2	0.5	0.2	0.8	(Z)	(D)	(D)
Marion	E1	16	2	0.2	1.6	0.1	0.3	1.0	3.3	5.7	9.2	0.1	0.3	3.1
Martin	E8	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mason	E8	8	-	(Z)	0.2	(Z)	(Z)	0.1	0.6	1.1	1.7	0.1	(Z)	(NA)
Matagorda	E1	28	6	0.8	12.1	0.6	1.1	6.8	21.8	110.8	130.9	(D)	(D)	(D)
Maverick	-	14	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Medina	-	19	4	0.5	5.0	0.4	0.8	3.6	11.7	7.5	18.7	0.3	0.6	7.7
Menard	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Midland	E1	94	24	2.0	23.4	1.3	2.4	11.1	53.8	47.3	99.9	7.6	1.4	23.0
Milam	-	21	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mills	E6	8	3	0.1	0.8	0.1	0.2	0.5	2.2	1.7	3.9	(D)	(Z)	(NA)
Mitchell	E1	8	2	0.1	0.9	0.1	0.2	0.7	1.5	1.4	3.0	0.1	0.1	0.9
Montague	E1	23	6	0.5	4.0	0.5	0.9	3.0	8.2	10.6	18.7	0.3	1.0	10.5
Montgomery	-	89	30	2.1	25.4	1.5	3.0	15.4	58.6	102.7	161.3	6.0	1.4	34.6
Moore	-	15	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	17.4
Morris	-	31	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Motley	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nacogdoches	-	67	26	3.5	33.8	2.8	5.2	24.0	79.5	112.7	187.4	5.5	2.9	43.0
Navarro	-	38	21	2.3	23.7	1.8	3.6	16.6	59.4	79.6	134.9	5.7	2.1	37.6
Newton	E1	38	3	0.6	7.2	0.6	1.1	5.4	26.3	23.1	49.3	1.3	0.4	5.3
Nolan	-	24	13	1.5	15.1	1.1	2.3	11.1	32.6	78.4	111.8	5.9	1.1	18.4
Nueces	-	221	66	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Ochiltree	-	12	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	1.7
Orange	-	74	27	8.9	147.5	6.1	10.8	91.5	319.3	727.2	1 048.6	146.0	8.1	286.8
Palo Pinto	E1	40	15	2.1	18.6	1.4	2.9	11.0	43.4	45.1	88.5	3.5	2.3	27.6
Panola	-	21	4	0.5	4.2	0.4	0.9	3.3	12.6	13.3	26.1	2.0	0.5	6.6
Parker	E3	53	12	1.2	11.0	0.9	1.7	7.5	26.8	28.3	54.7	3.8	0.4	5.6
Parmer	-	15	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pecos	E2	10	2	0.1	1.1	0.1	0.1	0.6	3.3	5.7	9.0	(D)	(Z)	(NA)
Polk	E1	46	7	1.1	12.6	1.0	2.3	10.4	31.5	36.9	68.5	3.1	0.6	7.8
Potter	-	180	51	7.1	86.9	5.1	10.5	56.3	458.4	1 495.3	1 952.2	9.9	4.9	63.5
Presidio	-	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Rains	E1	7	4	0.2	1.4	0.2	0.3	1.0	2.6	1.2	3.8	0.2	(D)	(D)
Randall	-	31	9	0.6	7.1	0.4	0.8	3.4	16.3	38.7	56.2	6.2	0.6	5.2
Reagan	-	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Real	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Red River	-	24	10	1.1	7.0	0.9	1.4	5.4	14.1	20.4	34.4	0.9	0.8	8.9
Reeves	-	15	4	0.3	2.2	0.3	0.5	1.7	6.3	10.8	17.1	0.4	0.3	3.6
Refugio	E1	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Robertson	-	11	5	0.3	3.2	0.3	0.6	2.4	7.8	11.2	18.9	0.2	0.4	6.7
Rockwall	-	17	4	0.5	5.9	0.4	0.8	3.7	9.7	20.3	30.4	0.4	(D)	(D)
Runnels	-	13	5	0.6	4.7	0.5	1.0	3.0	11.5	12.1	23.1	0.7	0.6	7.0
Rusk	-	53	17	1.8	17.3	1.4	2.9	12.1	36.0	38.2	73.8	3.4	1.3	13.5
Sabine	-	19	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
San Augustine	E4	35	3	0.2	1.7	0.2	0.2	1.3	3.4	4.6	7.9	0.3	(D)	(D)
San Jacinto	E2	11	-	(Z)	0.3	(Z)	(Z)	0.2	0.7	0.7	1.4	0.1	(Z)	(NA)
San Patricio	-	27	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
San Saba	E3	6	-	(Z)	0.2	(Z)	(Z)	0.1	0.4	1.1	1.5	(Z)	(Z)	(NA)
Schleicher	E0	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Scurry	-	15	3	0.4	4.6	0.4	0.7	3.8	7.1	10.1	17.3	1.3	0.4	4.3
Shackelford	-	7	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Shelby	-	53	10	2.5	18.9	2.1	4.6	14.3	41.8	78.2	118.6	5.5	1.0	14.9
Sherman	E1	4	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Smith	-	171	51	12.1	144.6	9.6	18.4	104.1	379.7	484.6	857.1	18.2	12.0	226.7
Somervell	E0	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Starr	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Stephens	-	18	8	0.6	5.7	0.5	1.0	3.5	9.7	11.0	22.2	1.0	0.8	9.3
Sutton	E6	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Swisher	E1	14	2	0.2	1.5	0.1	0.3	1.3	6.1	3.6	9.6	0.1	0.1	1.7
Tarrant	-	1 649	545	82.0	1 131.0	55.3	110.9	663.3	2 831.9	3 470.7	6 134.9	170.4	67.3	1 342.0
Taylor	-	124	39	5.5	48.5	4.0	7.8	31.3	102.1	498.0	603.3	7.7	5.0	57.8
Terrell	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Terry	E2	11	3	0.2	1.9	0.2	0.3	1.2	4.5	4.4	8.0	0.1	(Z)	(NA)
Throckmorton	E7	5	-	(Z)	0.2	(Z)	(Z)	0.1	0.4	0.3	0.7	(Z)	(D)	(D)
Titus	-	37	12	1.2	10.6	1.0	1.9	7.6	35.4	150.8	186.0	1.3	1.1	21.5
Tom Green	-	100	27	4.8	42.6	3.4	6.1	25.0	126.3	158.9	291.3	6.2	3.5	78.1
Travis	E1	426	107	17.8	230.9	9.3	17.5	84.5	505.7	422.9	898.7	(D)	12.2	229.8

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972			
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mill- ions)	Wages (million dollars)							
COUNTIES—Con.															
Trinity	E3	21	3	0.2	1.4	0.2	0.3	1.2	4.9	4.1	8.9	0.2	0.1	1.0	
Tyler	E1	49	8	0.7	6.0	0.7	1.3	5.0	14.1	19.0	32.3	1.0	0.7	9.3	
Upshur	E1	23	3	0.4	3.4	0.3	0.6	2.6	5.2	15.4	20.2	0.6	0.6	6.4	
Upton	E7	3	-	(Z)	0.1	(Z)	(Z)	0.1	0.2	0.1	0.3	(Z)	(D)	(D)	
Uvalde	-	15	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Val Verde	-	16	4	0.7	5.0	0.5	1.0	3.5	15.7	22.6	38.8	(D)	(D)	(D)	
Van Zandt	-	26	8	0.9	7.2	0.7	1.3	5.2	16.2	13.5	29.9	0.8	0.7	7.2	
Victoria	-	43	13	2.7	44.1	1.8	3.9	24.9	181.0	328.8	512.3	43.3	2.8	103.3	
Walker	-	42	13	1.5	13.7	1.3	2.5	10.5	49.5	60.5	109.8	1.6	0.7	12.9	
Waller	E4	14	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)	
Ward	-	13	1	0.1	1.0	0.1	0.1	0.6	6.8	22.2	28.7	0.1	0.1	2.0	
Washington	E1	30	15	1.3	12.6	1.1	2.3	9.0	32.0	33.7	65.7	2.8	1.2	18.6	
Webb	-	60	17	1.5	11.9	1.1	2.1	7.4	26.8	55.4	85.1	0.9	1.2	10.5	
Wharton	-	39	8	0.9	8.2	0.7	1.3	5.6	13.5	33.8	46.6	1.7	0.7	10.4	
Wheeler	-	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Wichita	-	168	52	7.7	82.8	6.1	11.6	56.2	209.0	194.7	401.4	(D)	(D)	(D)	
Wilbarger	-	15	4	0.5	4.5	0.4	0.8	3.2	18.1	31.8	50.0	(D)	0.7	13.0	
Willacy	-	11	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	0.6	
Williamson	E3	77	21	2.0	18.5	1.5	2.9	10.5	26.6	37.9	63.0	(D)	1.3	12.1	
Wilson	-	8	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.3	
Winkler	-	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	1.0	
Wise	-	31	6	0.5	4.6	0.4	0.8	3.0	10.1	8.5	18.5	1.5	0.5	6.1	
Wood	-	33	7	0.7	5.2	0.6	1.4	4.2	18.2	25.8	44.0	1.1	0.6	7.5	
Yoakum	-	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	1.8	
Young	-	30	9	1.5	15.7	1.2	2.4	10.4	44.7	42.8	85.9	2.2	0.9	19.7	
Zapata	-	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Zavala	-	8	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
CITIES															
Abilene	-	115	38	4.9	44.5	3.3	6.8	28.0	97.9	497.4	598.5	7.7	4.9	57.7	
Alvin	-	25	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Amarillo	-	192	54	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.2	65.0	
Arlington	-	256	78	10.8	177.9	8.0	17.7	125.4	497.2	1 096.7	1 590.8	22.5	9.3	283.4	
Athens	-	32	10	1.5	11.0	1.2	2.2	8.7	40.5	53.5	89.7	(D)	1.7	22.9	
Atlanta	-	17	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	5.2	
Austin	E1	371	92	11.5	125.0	6.9	13.0	61.0	278.2	200.5	474.3	20.8	7.7	93.8	
Baytown	-	30	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Beaumont	-	146	50	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.0	194.9	
Belton	-	10	5	0.7	6.9	0.6	1.1	4.8	20.5	14.8	35.2	1.0	0.6	10.5	
Big Spring	-	29	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Bonham	E2	14	5	0.8	9.8	0.7	1.3	7.0	30.8	40.0	70.1	(D)	0.9	21.5	
Borger	-	25	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Breckenridge	-	18	8	0.6	5.7	0.5	1.0	3.5	9.7	11.0	22.2	1.0	(D)	(D)	
Brenham	-	28	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	17.6	
Brownsville	-	56	21	3.4	24.1	2.7	5.3	16.3	66.0	91.0	155.9	3.8	4.2	68.5	
Brownwood	-	38	15	2.0	24.0	1.5	3.2	16.2	109.9	108.2	214.4	6.4	1.7	55.9	
Bryan	E1	53	21	2.1	21.4	1.6	3.2	15.0	52.5	65.3	117.4	(D)	1.8	25.0	
Burleson	-	22	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.3	
Carrollton	-	70	33	7.3	93.5	4.5	9.1	40.4	263.8	193.6	452.2	5.2	3.8	75.1	
Carthage	-	19	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Cedar Hill	-	11	3	0.5	3.8	0.4	0.8	2.8	5.0	5.1	9.9	0.3	(NA)	(NA)	
Center	-	30	6	2.2	16.7	2.0	4.3	12.9	37.1	54.6	90.3	5.0	0.8	12.8	
Childress	-	10	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Clarksville	-	14	9	0.9	6.2	0.8	1.3	4.8	11.2	19.1	30.1	0.9	0.5	7.4	
Cleburne	-	41	18	2.5	21.7	1.9	3.6	15.2	62.2	90.4	148.5	3.1	2.4	33.4	
Clifton	-	6	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	5.0	
Coleman	-	10	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Commerce	-	11	4	0.5	4.7	0.5	0.9	3.5	7.7	9.7	17.3	1.0	(NA)	(NA)	
Conroe	-	55	18	1.4	17.4	0.9	2.0	9.7	35.4	63.7	99.5	3.1	0.7	14.2	
Corpus Christi	-	197	58	6.9	88.7	4.5	8.8	50.6	271.3	1 057.6	1 333.1	(D)	6.6	147.3	
Corsicana	-	32	17	1.7	17.0	1.3	2.8	12.1	43.5	48.4	89.1	3.7	1.7	27.3	
Crockett	E1	20	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Crystal City	-	8	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Dallas	-	2 154	693	112.7	1 458.8	67.1	133.2	673.2	2 726.9	2 768.4	5 484.5	191.3	107.2	1 793.2	
Deer Park	-	15	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.7	284.5	
Del Rio	-	16	4	0.7	5.0	0.5	1.0	3.5	15.7	22.6	38.6	(D)	(D)	(D)	
Denison	-	36	14	2.3	26.1	1.8	3.6	18.5	107.0	187.0	290.5	9.5	2.5	48.5	
Denton	-	57	22	4.1	37.6	2.9	5.8	23.0	102.7	69.1	171.3	4.7	3.3	44.7	
Diboll	-	16	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Dumas	-	12	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Duncanville	-	22	6	0.5	5.2	0.4	0.8	3.3	12.0	11.4	23.5	0.6	(NA)	(NA)	
Eagle Pass	-	14	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Edinburg	E1	23	7	0.5	4.6	0.3	0.6	2.7	9.6	15.3	24.8	0.4	0.5	8.0	
El Campo	-	19	3	0.6	5.5	0.5	0.9	3.8	8.5	18.3	26.2	1.0	0.5	6.4	
El Paso	-	386	127	26.6	221.4	21.1	38.2	146.1	689.9	1 316.9	1 998.3	(D)	24.5	320.7	
Ennis	-	39	20	2.3	21.7	1.9	3.7	15.7	31.0	60.9	92.3	1.9	1.7	22.6	
Eules	-	19	9	1.7	17.2	1.1	1.7	7.5	45.2	35.4	78.2	6.7	1.0	20.0	
Farmers Branch	E1	94	35	3.4	43.9	2.2	4.3	21.8	74.2	77.3	149.6	7.1	2.5	39.7	
Fort Worth	-	911	313	56.2	789.5	36.3	72.2	441.4	1 913.9	1 878.3	3 633.7	114.0	46.1	850.1	
Freeport	-	39	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Gainesville	-	47	17	2.5	27.8	2.1	3.9	19.0	73.7	48.7	121.4	1.6	(D)	(D)	
Galveston	-	56	23	2.8	40.8	2.3	4.5	31.5	144.1	107.5	247.9	5.3	3.1	79.9	
Garland	-	288	90	13.5	173.5	8.9	16.8	92.7	474.4	471.1	948.8	21.2	12.5	227.9	

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972		
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
CITIES—Con.														
Graham	-	18	5	0.9	10.6	0.7	1.5	6.6	27.9	22.4	49.6	(D)	(NA)	(NA)
Grand Prairie	-	155	52	6.1	69.1	4.2	8.0	37.2	155.8	179.9	331.7	6.8	5.2	119.9
Grapevine	-	16	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Greenville	-	41	15	5.1	61.0	4.0	8.1	46.2	120.9	78.4	196.6	5.9	2.9	45.9
Haltom City	-	62	18	1.4	17.1	1.1	1.9	11.5	30.4	31.4	61.4	2.2	1.2	23.7
Harlingen	-	46	21	2.4	18.3	1.7	3.3	11.3	42.5	66.9	108.8	2.5	1.7	20.3
Henderson	-	41	16	1.7	16.3	1.3	2.8	11.4	34.2	36.0	69.7	3.3	1.1	12.5
Hereford	-	31	8	1.1	14.7	0.9	1.8	11.9	33.0	210.8	246.0	(D)	(D)	(D)
Hillsboro	-	23	7	0.6	5.5	0.4	0.9	3.6	19.4	23.8	44.1	0.4	1.0	15.0
Houston	-	2 994	980	147.4	2 265.8	85.9	174.5	1 093.7	4 513.6	7 036.9	11 476.9	403.3	108.0	2 096.5
Hunters Creek Village	-	13	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Huntsville	-	31	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Hurst	E1	51	17	1.1	12.5	0.8	1.7	7.6	22.5	29.7	54.0	0.7	0.8	13.5
Ingleside	-	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Irving	-	164	45	6.5	90.8	3.0	5.7	31.4	175.5	152.7	325.1	6.3	3.5	92.3
Jacksonville	E1	72	33	2.6	20.7	2.3	4.3	15.6	41.7	41.9	82.1	(D)	2.5	29.1
Jasper	-	39	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kaufman	-	12	6	0.5	4.0	0.4	0.8	2.8	10.8	15.8	26.1	(D)	(NA)	(NA)
Kennedale	-	22	4	0.7	9.0	0.6	1.2	6.1	29.2	21.0	50.7	(D)	(NA)	(NA)
Kernville	E2	19	4	0.9	8.2	0.6	1.1	4.4	20.7	12.2	31.8	1.6	(NA)	(NA)
Kilgore	-	26	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	14.1
Lancaster	E1	24	12	1.0	8.7	0.8	1.6	6.5	20.9	28.0	47.7	1.4	0.7	12.5
La Porte	-	20	9	2.4	50.5	1.5	3.1	28.6	240.3	465.6	694.4	162.1	0.5	52.3
Laredo	E2	51	9	0.7	6.2	0.5	1.0	3.4	13.8	12.2	26.0	0.8	(D)	(D)
Lewisville	-	37	12	1.3	11.2	0.9	1.6	6.2	22.7	33.7	56.5	1.1	0.7	10.3
Liberty	-	14	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Littlefield	-	12	3	0.8	7.3	0.8	1.4	6.1	8.7	24.3	32.4	(D)	(NA)	(NA)
Longview	-	131	43	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.5	127.6
Lubbock	-	269	62	12.5	132.6	8.9	17.2	73.0	327.7	468.6	777.0	(D)	6.7	110.9
Lufkin	-	92	29	6.6	80.6	5.3	11.0	60.1	214.9	201.1	414.3	19.2	4.8	75.6
McAllen	-	56	15	2.5	17.8	2.0	3.9	12.4	47.1	46.4	92.5	7.1	0.8	12.2
McGregor	-	10	4	0.6	7.5	0.5	0.9	4.5	10.3	12.4	23.6	(D)	0.8	13.2
McKinney	-	31	17	1.5	13.0	1.2	2.3	9.0	47.6	45.4	91.1	2.9	1.1	11.3
Mansfield	-	38	21	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	7.5
Marshall	-	56	25	2.7	24.7	2.2	4.4	17.6	57.8	57.2	114.0	(D)	2.4	27.4
Mesquite	-	46	14	4.1	57.0	3.2	6.5	39.0	200.4	255.9	443.9	13.6	2.6	49.9
Mexia	-	11	7	0.6	4.0	0.5	0.9	3.1	6.5	9.9	16.7	0.3	(NA)	(NA)
Midland	E1	76	18	1.3	16.2	0.6	1.3	6.3	30.9	26.5	57.3	6.7	1.2	20.5
Mineola	-	15	4	0.5	3.6	0.5	1.1	3.1	13.8	15.1	29.0	0.7	0.5	7.0
Mineral Wells	-	34	11	1.6	14.3	1.0	2.1	8.2	32.5	34.5	67.7	3.0	(D)	(D)
Missouri City	-	16	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	22.5
Mount Pleasant	-	33	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nacogdoches	-	53	23	3.3	32.3	2.6	4.9	22.8	74.8	105.1	175.2	5.0	2.7	40.9
Navasota	-	17	9	0.7	7.3	0.6	1.1	5.3	18.8	26.2	43.8	5.4	(NA)	(NA)
New Braunfels	-	36	12	2.6	21.7	2.2	4.6	17.1	33.2	46.3	81.0	(D)	(D)	(D)
North Richland Hills	-	20	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Odessa	-	157	39	3.2	47.4	1.9	4.1	24.3	89.3	243.8	332.1	8.4	2.9	62.1
Olney	-	12	4	0.5	5.1	0.5	0.9	3.8	16.8	20.4	36.3	(D)	(NA)	(NA)
Orange	-	44	23	8.6	144.5	5.9	10.4	89.4	314.2	723.4	1 039.9	145.5	7.0	258.7
Palestine	-	33	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	10.9
Pampa	-	31	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	16.9
Paris	-	52	22	4.9	51.7	3.9	7.4	37.1	215.1	251.0	467.3	10.5	(D)	(D)
Pasadena	-	79	30	4.6	80.8	3.2	6.1	49.6	303.1	684.8	979.9	120.7	2.2	99.3
Pearland	-	28	10	0.6	7.1	0.5	1.0	4.7	17.0	18.0	34.5	0.8	(NA)	(NA)
Plainview	-	45	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Plano	-	43	15	1.9	20.6	1.3	2.8	12.6	40.5	58.6	100.0	(D)	2.2	32.0
Port Arthur	-	50	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Port Lavaca	-	13	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Port Neches	-	7	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Post	-	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Richardson	-	106	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.7	45.1
Robstown	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Rockdale	-	8	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Rockwall	-	13	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Round Rock	E2	20	3	0.5	7.3	0.2	0.5	2.6	7.4	14.0	19.9	(D)	(NA)	(NA)
San Angelo	-	99	26	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
San Antonio	-	782	241	32.5	328.6	22.6	43.3	184.4	768.4	910.3	1 660.7	75.5	28.6	412.9
San Marcos	-	19	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Seguin	-	36	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	3.7
Sherman	-	51	25	6.3	79.5	4.5	9.0	47.9	174.7	277.1	441.3	22.7	4.9	115.4
Stafford	E1	21	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Stephenville	-	21	5	0.8	6.4	0.6	1.2	4.4	20.3	18.4	37.0	(D)	(NA)	(NA)
Sugar Land	-	12	8	2.4	39.2	1.4	3.0	19.5	105.6	152.8	249.5	12.2	(D)	(D)
Sulphur Springs	-	28	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Sweeny	-	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Sweetwater	-	18	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	6.2
Taylor	-	18	12	0.9	6.9	0.8	1.6	4.9	11.5	14.3	25.9	0.2	0.9	9.0
Temple	-	62	30	4.2	41.9	3.2	6.9	29.0	127.6	142.7	273.6	(D)	3.7	64.7
Terrell	-	32	13	1.5	15.3	1.2	2.3	10.5	34.1	39.7	74.1	3.3	1.3	20.5
Texarkana	E1	60	25	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	25.6
Texas City	-	33	12	7.9	158.0	5.3	11.2	105.8	1 300.9	4 176.9	5 392.7	117.0	7.5	601.1
Tyler	-	151	40	8.5	100.7	6.7	12.7	70.7	291.5	413.8	698.9	(D)	7.9	161.9
Vernon	-	15	4	0.5	4.5	0.4	0.8	3.2	18.1	31.8	50.0	(D)	(D)	(D)

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E¹	1977										1972		
		All establishments²		All employees²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als³ (million dollars)	Value of ship- ments³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
CITIES—Con.														
Victoria -----	-	42	13	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Waco -----	-	177	71	10.6	110.6	7.6	14.7	71.3	293.4	330.2	621.1	24.4	8.9	139.6
Waxahachie -----	-	23	6	1.2	13.3	0.9	1.7	9.4	39.6	31.0	71.1	2.0	1.3	20.8
Weatherford -----	E3	34	8	0.5	5.1	0.4	0.8	3.3	12.8	19.1	31.6	1.8	(NA)	(NA)
Weslaco -----	-	20	7	0.9	7.8	0.8	1.7	5.9	34.6	46.6	80.4	0.5	0.5	15.1
Wichita Falls -----	-	142	46	6.9	73.2	5.5	10.2	49.1	175.0	166.0	340.0	33.3	4.2	59.5
Winters -----	-	4	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Woodville -----	-	25	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Yoakum -----	E1	21	8	1.2	9.6	0.8	1.5	5.0	20.3	34.8	51.7	(D)	0.5	5.7

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	E ¹	1977										1972		
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	All Industries -----	-	18 107	5 644	886.4	11 653.1	600.7	1 190.1	6 626.4	33 080.9	60 395.8	92 735.7	5 194.7	735.6	15 253.0
20	Food and kindred products -----	-	1 507	616	84.8	961.2	57.6	116.5	581.6	3 040.7	8 494.6	11 494.7	251.9	77.5	1 716.6
201	Meat products -----	-	315	124	21.6	223.3	18.1	36.9	174.7	502.9	3 521.7	4 024.7	46.5	17.1	258.5
2011	Meat packing plants -----	-	201	66	12.7	148.9	10.5	21.9	118.4	347.5	2 882.3	3 233.2	15.1	10.0	183.7
2013	Sausages and other prepared meats -----	-	76	32	3.4	39.7	2.5	5.1	26.5	95.6	346.8	439.9	(D)	EE	(D)
2016	Poultry dressing plants -----	-	25	21	5.2	32.7	4.8	9.4	28.3	54.9	274.7	329.2	19.6	5.3	45.7
2017	Poultry and egg processing -----	E5	13	5	0.3	2.0	0.2	0.5	1.6	4.9	18.0	22.5	(D)	(NA)	(NA)
202	Dairy products -----	-	98	58	6.6	74.4	2.8	6.2	28.3	228.2	562.7	788.7	16.0	7.4	140.5
2024	Ice cream and frozen desserts -----	-	28	12	1.0	10.0	0.5	1.1	4.9	30.4	49.6	79.9	(D)	CC	(D)
2026	Fluid milk -----	-	59	42	5.5	62.3	2.2	4.7	22.0	191.6	467.3	658.4	12.5	6.2	119.1
203	Preserved fruits and vegetables -----	-	93	40	7.0	65.3	5.8	11.7	49.8	248.5	406.8	655.0	17.9	6.9	130.1
2032	Canned specialties -----	-	16	10	2.9	28.3	2.3	4.8	20.8	122.3	191.7	313.8	7.3	FF	(D)
2033	Canned fruits and vegetables -----	-	26	10	1.5	11.8	1.4	2.5	9.3	39.5	70.5	110.0	1.5	1.5	23.4
2035	Pickles, sauces, and salad dressings -----	-	19	4	1.1	13.6	0.9	1.8	11.5	63.8	104.6	168.5	(D)	1.1	13.4
2037	Frozen fruits and vegetables -----	E1	5	5	0.5	2.7	0.4	1.0	2.2	5.6	11.1	16.7	(D)	BB	(D)
2038	Frozen specialties -----	E1	22	10	0.8	7.8	0.7	1.4	5.2	14.7	25.1	39.8	2.5	1.1	15.7
204	Grain mill products -----	-	201	76	7.4	92.3	5.1	10.4	52.8	315.5	1 001.9	1 313.0	33.8	7.6	208.1
2041	Flour and other grain mill products -----	-	16	6	0.7	7.6	0.6	1.2	5.0	25.7	82.7	108.6	(D)	0.9	24.6
2044	Rice milling -----	-	10	8	1.6	25.9	1.2	2.4	13.7	132.2	347.2	477.1	10.5	1.3	76.8
2045	Blended and prepared flour -----	-	9	5	0.8	9.8	0.5	1.0	6.3	40.6	48.1	88.5	1.3	CC	(D)
2046	Wet corn milling -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2047	Dog, cat, and other pet food -----	-	11	5	0.6	5.0	0.5	1.0	3.4	12.0	32.8	44.9	(D)	BB	(D)
2048	Prepared feeds, n.e.c. -----	-	153	50	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	74.3
205	Bakery products -----	-	156	68	11.8	140.5	7.0	13.5	71.9	345.9	266.6	612.6	15.7	10.4	179.9
2051	Bread, cake, and related products -----	-	144	61	10.6	125.8	6.0	11.3	59.4	286.5	233.4	519.8	(D)	FF	(D)
2052	Cookies and crackers -----	-	12	7	1.2	14.7	1.1	2.2	12.5	59.4	33.2	92.9	(D)	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
20	Food and kindred products—Con.														
206	Sugar and confectionery products -----	-	48	14	2.8	34.6	2.1	4.5	22.2	102.0	189.1	283.8	14.4	2.8	55.2
2061	Raw cane sugar -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2082	Cane sugar refining -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2063	Beet sugar -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2065	Confectionery products -----	E1	45	11	1.6	17.0	1.2	2.5	10.3	45.5	66.3	113.0	(D)	EE	(D)
207	Fats and oils -----	-	78	37	4.1	45.2	3.1	7.0	32.6	191.3	639.4	813.5	13.7	3.4	93.5
2074	Cottonseed oil mills -----	-	27	18	1.8	17.3	1.4	3.3	12.4	74.5	235.4	296.6	5.9	1.5	33.8
2077	Animal and marine fats and oils -----	-	37	11	0.8	7.9	0.5	1.3	5.2	27.3	62.6	88.8	3.0	CC	(D)
2079	Shortening and cooking oils -----	-	8	7	1.4	19.4	1.1	2.3	14.5	85.3	326.1	408.9	4.6	1.3	45.8
208	Beverages -----	-	180	111	14.4	188.3	6.5	13.0	81.1	717.0	978.2	1 689.8	72.8	12.4	353.4
2082	Malt beverages -----	-	7	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2086	Bottled and canned soft drinks -----	-	153	99	11.0	119.4	4.0	8.1	32.7	356.0	495.4	846.4	56.7	9.5	141.3
2087	Flavoring extracts and sirups, n.e.c. -----	-	15	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
209	Miscellaneous foods and kindred products -----	-	338	88	9.1	97.2	7.1	13.3	68.1	389.6	928.2	1 313.5	21.1	9.6	297.3
2092	Fresh or frozen packaged fish -----	E1	35	14	1.3	8.2	1.2	1.9	6.2	14.5	89.9	104.4	(D)	2.3	23.8
2095	Roasted coffee -----	-	9	5	1.2	22.2	0.9	2.1	17.5	98.4	600.2	694.3	7.5	1.3	114.3
2097	Manufactured ice -----	E1	76	11	0.8	6.5	0.5	1.0	3.3	17.3	4.9	22.3	4.0	1.0	13.7
2099	Food preparations, n.e.c. -----	E1	208	55	5.6	59.1	4.3	8.0	40.4	254.3	226.9	481.3	7.6	4.9	144.0
22	Textile mill products --	-	113	40	7.1	60.7	5.3	12.8	49.2	140.0	168.2	304.5	22.2	5.4	62.6
2211	Weaving mills, cotton -----	-	9	4	1.2	9.7	1.1	2.1	8.5	11.1	29.3	40.1	7.0	EE	(D)
2221	Weaving mills, manmade fiber and silk -----	-	12	7	3.3	29.9	2.9	6.1	25.1	58.2	71.4	129.5	(D)	EE	(D)
2231	Weaving and finishing mills, wool -----	E1	8	2	0.3	2.0	0.3	0.5	1.7	3.1	1.8	4.7	(D)	AA	(D)
225	Knitting mills -----	E1	16	8	0.8	6.4	0.7	1.4	5.0	15.0	7.9	22.5	(D)	1.0	6.5
2253	Knit outerwear mills -----	E2	9	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2254	Knit underwear mills -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
229	Miscellaneous textile goods -----	-	46	13	1.3	10.0	1.1	2.2	7.2	48.8	49.1	93.9	(D)	1.0	11.1
2293	Paddings and upholstery filling -----	-	6	2	0.3	2.5	0.2	0.5	1.7	4.1	9.2	13.3	0.1	AA	(D)
2297	Nonwoven fabrics -----	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2299	Textile goods, n.e.c. -----	E1	18	4	0.3	2.2	0.3	0.5	1.8	3.7	2.8	6.5	0.1	AA	(D)
23	Apparel and other textile products -----	-	925	445	73.4	481.2	63.6	117.0	361.1	985.7	1 001.3	1 959.4	34.1	67.0	557.4
2311	Men's and boys' suits and coats -----	-	19	13	3.2	22.1	2.6	5.9	14.8	3.7	53.6	40.0	(D)	1.5	11.6
232	Men's and boys' furnishings -----	-	131	106	30.5	189.6	27.4	49.7	154.9	420.2	431.3	852.9	(D)	33.4	276.5
2321	Men's and boys' shirts and nightwear -----	-	10	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	2.2
2327	Men's and boys' separate trousers -----	-	24	18	9.9	60.0	8.6	13.6	44.4	84.2	114.9	206.0	1.2	18.1	142.7
2328	Men's and boys' work clothing -----	-	78	70	18.3	115.6	16.8	32.3	100.0	305.0	289.0	588.5	(D)	13.0	112.1
2329	Men's and boys' clothing, n.e.c. -----	-	17	13	1.7	9.8	1.5	3.0	8.1	18.5	16.1	34.9	1.1	EE	(D)
233	Women's and misses' outerwear -----	E1	351	180	20.5	144.2	17.1	30.9	98.3	327.6	258.3	582.3	(D)	18.1	151.0
2331	Women's and misses' blouses and waists -----	E2	41	21	2.3	15.3	2.0	3.6	10.8	30.5	28.9	60.1	0.6	EE	(D)
2335	Women's and misses' dresses -----	E1	200	76	6.8	52.5	5.5	10.0	30.8	97.9	89.0	184.8	2.9	9.4	66.6
2337	Women's and misses' suits and coats -----	-	55	37	4.2	30.6	3.5	6.3	21.9	85.2	56.7	141.7	0.5	EE	(D)
2339	Women's and misses' outerwear, n.e.c. -----	E1	55	46	7.2	45.8	6.1	11.0	34.9	114.0	83.7	195.6	(D)	4.2	43.5
234	Women's and children's undergarments -----	-	21	17	5.0	30.6	4.4	8.2	25.0	61.4	46.1	106.1	(D)	3.4	24.0
2341	Women's and children's underwear -----	-	13	10	3.0	19.2	2.6	4.9	15.3	27.6	27.0	54.7	1.3	EE	(D)
2342	Brassieres and allied garments -----	-	8	7	2.0	11.5	1.8	3.3	9.7	33.8	19.1	51.5	(D)	EE	(D)
235	Hats, caps, and millinery -----	-	20	9	1.7	11.4	1.4	2.6	7.5	21.1	17.4	35.8	(D)	EE	(D)
2352	Hats and caps, except millinery -----	-	15	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
236	Children's outerwear -----	E1	34	26	3.4	20.0	3.0	5.6	15.7	35.2	31.3	65.9	(D)	2.4	18.8
2361	Children's dresses and blouses -----	E1	20	16	2.2	13.1	1.9	3.5	10.1	22.8	13.2	35.3	0.3	EE	(D)
2369	Children's outerwear, n.e.c. -----	-	13	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
23	Apparel and other textile products—Con.														
238	Miscellaneous apparel and accessories	-	46	20	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	7.5
2387	Apparel belts	-	15	13	1.3	8.4	0.9	1.4	4.5	17.9	12.8	29.6	0.2	CC	(D)
2389	Apparel and accessories, n.e.c.	E3	18	6	0.2	1.6	0.2	0.2	1.0	2.5	1.4	3.9	(Z)	AA	(D)
239	Miscellaneous fabricated textile products	E1	301	73	7.4	51.6	6.5	12.2	38.1	92.4	141.3	231.7	(D)	5.4	48.0
2391	Curtains and draperies	E1	109	17	2.2	14.2	1.9	3.6	11.1	24.0	51.6	75.2	0.5	1.6	14.3
2392	House furnishings, n.e.c.	E3	35	11	0.7	5.2	0.7	1.3	3.8	11.6	22.5	33.8	(D)	0.9	9.4
2393	Textile bags	-	13	6	0.4	3.3	0.4	0.8	2.2	6.4	15.8	21.8	0.2	BB	(D)
2394	Canvas and related products	E1	44	6	0.4	3.7	0.3	0.6	2.2	6.8	7.4	14.2	0.2	0.4	3.7
2395	Pleating and stitching	E2	29	11	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2396	Automotive and apparel trimmings	-	19	5	0.4	2.9	0.3	0.6	2.2	5.2	9.5	14.5	0.1	BB	(D)
2397	Schiffli machine embroideries	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2399	Fabricated textile products, n.e.c.	-	48	15	2.0	14.2	1.7	3.2	10.7	25.3	26.6	51.0	1.0	0.7	4.8
24	Lumber and wood products	-	1 258	305	33.1	302.9	28.1	55.6	223.5	706.3	1 069.6	1 761.8	49.3	30.8	369.9
2411	Logging camps and logging contractors	E2	428	14	2.2	23.3	1.9	3.4	18.5	65.6	90.4	155.3	8.1	1.6	22.8
242	Sawmills and planing mills	E1	189	62	6.0	47.2	5.3	11.0	37.9	104.9	143.6	246.2	12.6	7.3	92.6
2421	Sawmills and planing mills, general	E1	161	53	4.3	35.0	3.9	7.9	28.5	78.3	122.4	199.5	10.3	6.7	87.8
2426	Hardwood dimension and flooring	-	20	8	1.5	11.7	1.3	2.9	8.9	25.9	19.9	44.6	2.2	CC	(D)
243	Millwork, plywood, and structural members	-	315	104	12.7	119.0	10.7	21.5	87.8	290.3	412.4	888.3	16.5	10.6	119.1
2431	Millwork	-	148	55	6.1	52.8	5.0	9.2	36.1	113.7	220.5	332.0	6.3	6.2	70.5
2434	Wood kitchen cabinets	E2	136	31	2.4	19.9	2.0	3.6	14.8	34.5	31.4	65.5	2.2	2.4	18.9
2436	Softwood veneer and plywood	-	10	9	3.5	39.6	3.2	7.5	32.0	126.7	124.5	250.2	7.0	EE	(D)
2439	Structural wood members, n.e.c.	E1	20	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
244	Wood containers	-	88	33	2.3	17.6	2.0	3.6	13.1	27.8	35.5	63.1	1.7	2.4	25.3
2441	Nailed wood boxes and shooks	-	22	10	0.6	4.7	0.5	0.9	3.2	9.2	11.1	20.2	(D)	0.9	7.8
2448	Wood pallets and skids	-	56	19	1.3	10.6	1.1	2.1	7.9	16.5	20.7	37.0	1.2	CC	(D)
2449	Wood containers, n.e.c.	-	10	4	0.4	2.3	0.3	0.6	1.9	2.1	3.7	5.9	(D)	CC	(D)
245	Wood buildings and mobile homes	-	80	55	7.3	71.1	6.0	11.5	48.1	151.7	297.9	441.4	7.3	6.5	79.9
2451	Mobile homes	-	57	44	5.9	54.0	4.9	9.6	39.0	105.9	233.9	338.2	6.2	6.0	71.6
2452	Prefabricated wood buildings	-	23	11	1.4	17.1	1.0	1.9	9.1	45.8	64.0	103.1	1.1	0.6	8.3
249	Miscellaneous wood products	E1	158	37	2.6	24.8	2.2	4.6	18.1	66.0	89.7	157.6	3.2	2.5	30.2
2491	Wood preserving	-	22	12	0.7	7.5	0.6	1.3	5.0	17.9	36.2	51.9	1.0	CC	(D)
2492	Particleboard	-	5	3	0.3	2.8	0.2	0.5	2.1	12.3	13.2	25.7	0.4	AA	(D)
2499	Wood products, n.e.c.	E1	131	22	1.6	14.5	1.4	2.8	10.9	35.8	40.4	80.1	1.7	1.5	17.5
25	Furniture and fixtures	-	512	184	17.4	148.1	14.4	26.8	103.3	305.5	312.3	610.7	13.8	18.1	198.3
251	Household furniture	-	288	109	10.8	85.1	9.3	17.2	63.2	175.2	198.3	368.7	6.5	10.4	120.3
2511	Wood household furniture	E1	118	29	3.8	27.4	3.3	6.2	21.2	50.3	49.2	98.6	2.6	2.7	30.3
2512	Upholstered household furniture	-	65	40	3.4	27.9	3.0	5.3	20.6	46.6	56.6	103.0	1.0	3.5	34.2
2514	Metal household furniture	-	16	7	1.3	8.4	1.2	2.0	7.2	21.3	21.6	40.7	0.3	1.7	19.9
2515	Mattresses and bedsprings	-	74	28	2.1	19.3	1.6	3.1	12.6	53.2	66.5	118.2	2.1	EE	(D)
2519	Household furniture, n.e.c.	E3	12	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
252	Office furniture	-	27	13	1.3	11.4	1.0	1.9	7.3	26.4	24.6	50.3	1.6	CC	(D)
2521	Wood office furniture	-	21	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2522	Metal office furniture	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2531	Public building and related furniture	-	28	15	1.9	14.6	1.5	2.9	9.8	27.7	29.0	56.5	1.2	2.2	23.0
254	Partitions and fixtures	E1	105	32	2.4	28.0	1.8	3.5	17.3	58.1	45.9	103.3	3.8	2.2	31.2
2541	Wood partitions and fixtures	E2	90	23	1.5	17.7	1.2	2.3	11.4	37.5	18.9	56.0	1.5	EE	(D)
2542	Metal partitions and fixtures	-	15	9	0.9	10.3	0.7	1.2	5.9	20.5	27.1	47.3	2.3	CC	(D)
259	Miscellaneous furniture and fixtures	-	64	15	0.9	9.0	0.8	1.3	5.7	18.1	14.4	32.0	0.7	CC	(D)
2591	Drapery hardware and blinds and shades	E1	38	5	0.4	3.1	0.3	0.5	2.1	7.5	7.6	14.9	0.3	0.2	4.6
2599	Furniture and fixtures, n.e.c.	-	26	10	0.5	5.9	0.4	0.9	3.7	10.6	6.8	17.1	0.4	BB	(D)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
26	Paper and allied products -----	-	253	140	19.8	272.0	14.5	30.0	178.1	663.0	919.9	1 580.9	178.2	17.6	342.0
2621	Paper mills, except building paper -----	-	6	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2631	Paperboard mills -----	-	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
264	Miscellaneous converted paper products -----	-	122	52	5.9	66.5	4.4	8.9	44.6	171.3	219.5	390.0	15.2	5.5	86.5
2641	Paper coating and glazing ---	-	28	6	0.7	8.0	0.5	1.0	5.1	17.7	32.8	50.7	2.6	BB	(D)
2642	Envelopes -----	-	14	11	1.1	12.9	0.8	1.6	8.2	24.4	24.9	49.4	0.7	EE	(D)
2643	Bags, except textile bags ---	-	28	19	2.7	31.0	2.1	4.2	21.9	93.4	114.7	207.8	9.5	2.5	35.7
2645	Die-cut paper and board -----	-	8	3	0.3	2.8	0.2	0.4	2.0	2.3	10.4	12.6	(D)	BB	(D)
2648	Stationery products -----	-	7	5	0.5	5.6	0.4	0.9	4.1	16.7	21.0	37.1	1.5	0.6	9.9
2649	Converted paper products, n.e.c. -----	E1	33	7	0.5	5.6	0.3	0.7	2.7	15.6	14.8	30.4	0.8	CC	(D)
265	Paperboard containers and boxes -----	-	116	76	7.2	84.1	5.4	11.1	55.0	175.9	319.9	494.4	31.7	6.8	107.5
2651	Folding paperboard boxes ---	-	17	8	0.8	9.4	0.6	1.3	6.4	22.0	27.0	48.7	3.3	CC	(D)
2652	Setup paperboard boxes ---	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2653	Corrugated and solid fiber boxes -----	-	77	52	4.9	59.8	3.5	7.3	38.0	118.9	230.0	347.8	25.5	4.3	66.0
2654	Sanitary food containers ---	-	6	5	0.9	8.9	0.8	1.5	6.3	22.7	39.9	62.6	2.0	1.0	20.6
2655	Fiber cans, drums, and similar products -----	-	14	9	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	7.8
27	Printing and publishing -----	E1	2 735	405	47.4	525.6	27.5	51.2	278.1	1 159.9	662.9	1 819.4	61.6	40.6	655.3
2711	Newspapers -----	-	607	103	19.2	200.8	7.5	13.3	77.6	506.7	207.1	713.8	26.2	17.6	298.9
2721	Periodicals -----	E1	138	14	1.6	21.6	0.2	0.5	2.2	47.2	36.9	84.1	0.6	CC	(D)
273	Books -----	E1	91	25	2.9	29.2	1.9	3.5	15.4	70.1	38.9	108.8	2.8	2.2	37.7
2731	Book publishing -----	E2	58	9	0.9	9.7	0.2	0.4	1.7	30.6	18.8	49.1	0.8	BB	(D)
2732	Book printing -----	-	33	16	2.0	19.4	1.7	3.1	13.7	39.6	20.1	59.7	2.0	EE	(D)
2741	Miscellaneous publishing ---	E2	100	10	1.2	11.5	0.4	0.7	3.2	25.0	7.8	32.9	0.4	CC	(D)
275	Commercial printing -----	E2	1 540	168	14.1	165.4	10.9	20.2	113.7	310.5	235.3	544.1	22.3	12.3	176.0
2751	Commercial printing, letterpress -----	E4	845	37	4.2	46.2	3.4	6.1	32.6	92.7	70.4	162.8	(D)	4.0	61.6
2752	Commercial printing, lithographic -----	E1	629	119	9.0	110.2	6.8	13.0	74.7	199.3	151.3	349.3	13.1	7.6	106.5
2753	Engraving and plate printing -	E2	45	7	0.4	3.9	0.3	0.5	2.6	8.3	3.2	11.5	0.2	CC	(D)
2754	Commercial printing, gravure -----	-	21	5	0.5	5.1	0.4	0.7	3.8	10.2	10.4	20.5	(D)	(NA)	(NA)
2761	Manifold business forms -----	-	48	32	4.3	49.9	3.1	6.6	31.8	115.0	101.7	215.9	4.4	3.4	64.3
278	Blankbooks and bookbinding --	-	56	26	2.3	22.5	2.0	3.8	16.4	42.2	18.3	60.3	1.7	EE	(D)
2782	Blankbooks and looseleaf binders -----	-	22	17	1.4	15.0	1.2	2.3	10.7	30.5	13.6	43.9	1.2	CC	(D)
2789	Bookbinding and related work -----	E2	34	9	0.9	7.5	0.8	1.6	5.7	11.7	4.7	16.4	0.5	CC	(D)
279	Printing trade services -----	E1	155	27	1.8	24.6	1.4	2.6	17.9	42.9	16.9	59.4	3.2	1.5	25.8
2791	Typesetting -----	E1	106	17	1.0	12.3	0.8	1.4	9.2	20.0	3.9	23.9	1.2	0.9	13.5
2793	Photoengraving -----	E3	25	2	0.3	3.5	0.2	0.3	2.4	5.9	2.7	8.6	0.3	BB	(D)
2795	Lithographic platemaking services -----	-	24	8	0.6	8.8	0.5	0.8	6.3	17.0	10.3	26.9	1.8	AA	(D)
28	Chemicals and allied products -----	-	543	314	67.7	1 264.2	41.4	84.5	709.0	7 310.0	10 197.8	17 347.0	2 269.2	FF	(D)
281	Industrial inorganic chemicals --	-	103	38	6.4	112.6	4.5	8.9	73.2	437.0	668.3	1 098.3	146.6	5.6	214.9
2812	Alkalies and chlorine -----	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2813	Industrial gases -----	-	51	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2819	Industrial inorganic chemicals, n.e.c. -----	-	45	21	3.8	67.0	2.7	5.3	44.9	194.2	416.4	596.0	45.8	3.2	103.5
282	Plastics materials and synthetics -----	-	43	35	10.8	213.5	7.4	15.3	138.0	981.7	2 063.1	2 989.7	435.0	9.7	476.5
2821	Plastics materials and resins -	-	31	26	6.2	123.7	3.9	8.5	72.4	729.7	1 355.4	2 032.0	407.7	FF	(D)
2822	Synthetic rubber -----	-	10	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
283	Drugs -----	-	58	12	2.6	37.3	0.9	1.8	9.3	114.8	41.1	154.3	6.5	1.4	37.0
2831	Biological products -----	-	23	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2834	Pharmaceutical preparations -	-	30	7	1.6	22.0	0.4	0.7	3.1	60.3	17.4	77.2	(D)	1.2	31.7
284	Soaps, cleaners, and toilet goods -----	-	132	23	2.2	28.6	1.3	2.6	16.4	184.9	183.1	366.9	6.1	2.3	125.7
2841	Soap and other detergents ---	-	36	10	1.0	15.0	0.6	1.2	9.4	123.8	94.3	216.8	3.2	CC	(D)
2842	Polishes and sanitation goods -----	-	50	8	0.6	7.4	0.4	0.8	4.0	41.5	58.0	99.0	1.6	EE	(D)
2844	Toilet preparations -----	E3	40	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	4.0
2851	Paints and allied products -----	-	87	39	3.5	47.1	1.7	3.4	18.8	179.0	246.0	422.2	38.8	3.6	102.7
286	Industrial organic chemicals ---	-	101	63	32.2	676.6	19.2	39.5	369.1	4 761.5	6 106.3	10 799.4	1 480.1	26.0	1 960.6
2861	Gum and wood chemicals -----	E3	16	2	0.2	1.8	0.1	0.3	1.4	4.7	4.4	9.0	0.7	(NA)	(NA)
2865	Cyclic crudes and intermediates -----	-	13	10	2.7	57.6	1.6	3.4	27.5	440.5	716.9	1 143.4	58.2	EE	(D)
2869	Industrial organic chemicals, n.e.c. -----	-	72	51	29.3	617.3	17.4	35.8	340.3	4 316.3	5 385.0	9 647.0	1 421.3	23.9	1 843.4

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977										1972			
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
28	Chemicals and allied products—Con.														
287	Agricultural chemicals -----	-	118	35	4.4	72.6	3.0	5.9	42.4	321.5	507.2	809.9	124.3	3.1	117.3
2873	Nitrogenous fertilizers -----	-	15	6	0.6	10.1	0.4	0.9	6.7	58.5	101.4	151.3	6.8	0.6	34.9
2874	Phosphatic fertilizers -----	-	7	5	0.8	12.7	0.5	1.2	8.9	32.0	90.1	123.3	(D)	1.0	44.1
2875	Fertilizers, mixing only -----	E1	53	12	0.6	8.0	0.4	0.9	4.3	26.4	70.9	99.1	(D)	0.5	7.9
2879	Agricultural chemicals, n.e.c. -	-	42	12	2.4	41.8	1.6	2.9	22.6	204.5	244.8	436.2	95.3	0.9	30.4
289	Miscellaneous chemical products -----														
2891	Adhesives and sealants -----	-	201	69	5.5	75.9	3.5	7.2	41.6	329.6	382.9	706.2	31.8	5.0	153.0
2892	Explosives -----	-	32	9	0.5	7.1	0.3	0.6	3.0	24.6	28.6	53.0	1.3	AA	(D)
2893	Printing ink -----	-	7	5	0.3	3.1	0.2	0.4	1.7	15.8	10.2	25.0	(D)	AA	(D)
2895	Carbon black -----	-	20	5	0.3	3.8	0.2	0.3	1.8	14.2	18.8	33.0	(D)	AA	(D)
2899	Chemical preparations, n.e.c. -----	-	12	12	1.1	18.2	0.9	1.9	13.6	68.4	131.2	197.5	10.2	EE	(D)
		-	130	38	3.3	43.7	2.0	4.0	21.5	206.6	194.1	397.8	19.0	FF	(D)
29	Petroleum and coal products -----														
2911	Petroleum refining -----	-	180	83	35.3	692.3	24.8	52.7	470.1	4 184.0	23 167.7	27 178.9	1 031.7	32.7	1 338.2
295	Paving and roofing materials ---	-	76	58	32.4	653.9	23.1	49.1	450.5	4 075.2	22 946.3	26 848.4	1 021.6	30.2	1 274.4
2951	Paving mixtures and blocks ---	E1	49	20	2.4	31.0	1.4	3.0	15.7	89.3	147.9	236.5	6.2	2.1	49.4
2952	Asphalt felts and coatings ---	-	28	4	0.3	3.1	0.2	0.5	2.1	11.9	28.7	40.3	2.3	0.3	7.4
		-	21	16	2.1	27.9	1.2	2.6	13.6	77.4	119.3	196.2	3.8	1.8	42.0
299	Miscellaneous petroleum and coal products -----	-	55	5	0.5	7.4	0.3	0.6	3.9	19.5	73.5	94.0	4.0	0.5	14.4
2992	Lubricating oils and greases -	E1	50	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2999	Petroleum and coal products, n.e.c. -----	-	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
30	Rubber and miscellaneous plastics products -----														
3011	Tires and inner tubes -----	-	582	231	25.5	288.2	20.1	40.2	197.7	736.1	773.0	1 494.5	58.8	16.0	347.1
3041	Rubber and plastics hose and belting -----	-	12	7	3.7	55.8	3.0	5.9	44.1	149.5	167.5	316.2	3.9	FF	(D)
3069	Fabricated rubber products, n.e.c. -----	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3079	Miscellaneous plastics products -----	-	50	28	3.3	40.3	2.4	4.8	23.7	67.2	69.6	136.2	5.1	2.3	33.2
		-	511	192	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.6	225.3
31	Leather and leather products -----	E2	144	53	6.6	44.1	5.5	10.1	30.8	95.4	100.4	189.6	2.7	FF	(D)
3111	Leather tanning and finishing --	E8	10	2	0.2	1.2	0.1	0.3	0.9	2.0	3.0	5.0	(D)	0.2	1.8
3131	Boot and shoe cut stock and findings -----	-	6	3	0.2	1.6	0.2	0.3	1.1	4.7	7.7	12.2	(D)	(NA)	(NA)
314	Footwear, except rubber -----	E2	32	17	3.4	22.7	2.9	5.4	17.0	48.7	46.8	92.6	(D)	2.7	28.3
3142	House slippers -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3143	Men's footwear, except athletic -----	E3	15	9	2.2	15.8	1.9	3.6	12.0	34.0	34.5	65.9	(D)	EE	(D)
3144	Women's footwear, except athletic -----	-	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	4.7
3151	Leather gloves and mittens ----	-	4	4	0.4	2.1	0.4	0.7	1.8	6.3	6.5	12.8	(D)	(NA)	(NA)
317	Handbags and other personal leather goods -----	E1	23	8	0.8	5.3	0.7	1.4	4.0	8.7	8.9	17.9	(D)	0.7	6.7
3171	Women's handbags and purses -----	E1	17	7	0.7	4.7	0.6	1.2	3.6	7.8	5.0	16.1	(D)	0.6	6.1
3199	Leather goods, n.e.c. -----	E1	61	16	1.5	10.8	1.1	2.0	5.7	24.1	26.4	47.2	(D)	0.6	7.7
32	Stone, clay, and glass products -----														
3211	Flat glass -----	-	1 080	347	35.6	417.2	28.9	58.0	305.5	1 157.4	1 204.7	2 359.7	158.4	30.0	609.5
322	Glass and glassware, pressed or blown -----	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3221	Glass containers -----	-	22	7	2.8	37.0	2.6	4.7	30.9	85.0	68.2	151.5	(D)	2.4	50.6
3229	Pressed and blown glass, n.e.c. -----	-	5	5	2.3	32.1	2.1	4.0	27.3	78.2	56.8	134.2	4.2	2.2	48.5
		E1	17	2	0.5	4.9	0.5	0.7	3.5	6.8	11.4	17.4	(D)	(NA)	(NA)
3231	Products of purchased glass ---	E1	39	9	0.7	6.5	0.5	1.0	4.5	15.0	13.9	28.4	1.5	BB	(D)
3241	Cement, hydraulic -----	-	22	19	3.0	48.9	2.3	4.8	37.7	195.1	183.1	383.6	46.1	2.8	121.3
325	Structural clay products -----	-	58	41	4.5	39.4	3.8	7.7	28.9	96.6	67.3	163.1	9.4	4.3	55.4
3251	Brick and structural clay tile -	-	33	26	2.4	21.7	2.1	4.5	17.6	55.6	27.6	83.1	7.2	2.1	28.1
3253	Ceramic wall and floor tile ---	-	11	7	1.2	9.8	1.0	1.9	5.7	20.5	27.6	47.1	0.7	EE	(D)
3255	Clay refractories -----	E2	8	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3259	Structural clay products, n.e.c. -----	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Num-ber ² (1,000)	Payroll (million dollars)	Num-ber (1,000)	Hours (mil.)	Wages (million dollars)						
32	Stone, clay, and glass products—Con.														
326	Pottery and related products ---	-	44	9	1.6	15.5	1.4	2.7	12.1	28.3	19.5	46.5	2.1	EE	(D)
3261	Vitreous plumbing fixtures ---	-	7	5	1.2	11.2	1.0	1.9	9.1	23.4	14.4	36.8	1.6	CC	(D)
3264	Porcelain electrical supplies ---	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3269	Pottery products, n.e.c. ---	E1	35	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
327	Concrete, gypsum, and plaster products ---	-	656	202	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	13.6	241.1
3271	Concrete block and brick ---	E2	46	21	0.8	9.1	0.5	1.1	5.0	19.4	26.3	45.3	2.4	0.9	12.5
3272	Concrete products, n.e.c. ---	E1	230	57	4.6	48.7	3.7	7.6	33.9	110.0	95.0	201.5	7.6	4.8	73.6
3273	Ready-mixed concrete ---	-	364	111	8.3	103.0	6.4	13.4	72.8	260.7	441.9	702.8	42.2	6.4	115.9
3274	Lime ---	-	6	6	0.7	7.3	0.6	1.1	4.9	19.8	19.6	39.4	2.1	0.5	9.5
3275	Gypsum products ---	-	10	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	29.6
3281	Cut stone and stone products ---	E3	70	7	0.6	5.6	0.5	1.0	4.2	10.0	6.5	16.5	0.4	0.7	7.4
329	Miscellaneous nonmetallic mineral products ---	-	168	52	5.8	64.0	4.8	9.5	46.3	223.4	186.7	409.6	14.6	4.6	108.2
3291	Abrasive products ---	-	13	7	0.9	7.4	0.7	1.4	5.1	36.5	25.2	58.2	(D)	AA	(D)
3292	Asbestos products ---	-	8	4	0.9	11.9	0.7	1.6	9.0	41.2	42.7	84.1	(D)	1.2	35.8
3293	Gaskets, packing, and sealing devices ---	-	35	19	1.9	19.4	1.6	3.1	13.1	39.5	32.1	71.2	2.3	EE	(D)
3295	Minerals, ground or treated ---	-	37	13	0.6	6.5	0.5	0.8	4.2	16.3	26.0	45.4	2.4	0.7	13.3
3296	Mineral wool ---	-	11	7	1.3	16.6	1.1	2.1	13.0	83.5	57.5	141.7	(D)	0.8	32.8
3299	Nonmetallic mineral products, n.e.c. ---	E5	64	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
33	Primary metal industries	-	324	151	38.6	594.9	30.2	60.6	424.7	1 715.4	2 706.4	4 405.0	288.2	33.1	784.9
331	Blast furnace and basic steel products ---	-	70	37	16.0	272.2	12.4	24.7	196.5	584.8	861.8	1 430.1	175.2	FF	(D)
3312	Blast furnaces and steel mills ---	-	31	12	13.4	239.6	10.5	20.8	174.6	522.2	694.0	1 201.6	(D)	FF	(D)
3313	Electrometallurgical products ---	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3315	Steel wire and related products ---	-	22	15	1.2	12.7	0.9	1.8	8.5	23.9	63.5	86.8	3.0	CC	(D)
3317	Steel pipe and tubes ---	-	13	9	1.2	17.4	0.9	1.7	11.6	35.9	91.9	126.2	2.1	EE	(D)
332	Iron and steel foundries ---	-	66	40	8.6	104.6	7.3	14.7	79.0	198.8	125.5	322.6	18.0	7.9	114.1
3321	Gray iron foundries ---	-	39	23	5.4	63.2	4.7	9.4	49.8	123.6	83.0	205.9	9.4	5.4	78.9
3322	Malleable iron foundries ---	-	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3325	Steel foundries, n.e.c. ---	-	20	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
333	Primary nonferrous metals ---	-	12	11	7.1	132.0	5.4	10.8	93.4	727.0	1 247.6	1 981.1	75.0	FF	(D)
3331	Primary copper ---	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3332	Primary lead ---	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3333	Primary zinc ---	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3334	Primary aluminum ---	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3339	Primary nonferrous metals, n.e.c. ---	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3341	Secondary nonferrous metals ---	-	25	9	1.1	15.5	0.7	1.4	8.4	35.7	99.6	132.6	5.4	0.8	27.9
335	Nonferrous rolling and drawing ---	-	29	17	2.9	39.3	2.1	4.2	25.2	108.5	321.3	428.2	6.6	2.8	56.8
3351	Copper rolling and drawing ---	-	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3354	Aluminum extruded products ---	-	8	5	0.8	9.5	0.6	1.2	6.2	18.9	51.3	69.8	1.5	CC	(D)
3356	Nonferrous rolling and drawing, n.e.c. ---	E1	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3357	Nonferrous wire drawing and insulating ---	-	9	7	1.5	21.3	1.0	2.0	12.6	67.0	120.8	186.7	3.9	1.4	29.6
336	Nonferrous foundries ---	-	73	21	1.9	19.0	1.6	3.3	14.4	35.6	34.3	69.6	2.4	0.9	10.7
3361	Aluminum foundries ---	-	46	16	1.5	15.4	1.3	2.7	11.8	25.5	24.7	49.7	1.9	0.5	5.8
3362	Brass, bronze, and copper foundries ---	-	21	5	0.4	3.5	0.3	0.6	2.6	9.9	9.3	19.4	0.4	0.4	4.3
339	Miscellaneous primary metal products ---	E1	49	16	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	10.6
3398	Metal heat treating ---	-	29	14	0.8	10.4	0.5	1.2	6.4	21.6	9.0	30.2	5.3	CC	(D)
3399	Primary metal products, n.e.c. ---	E2	20	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
34	Fabricated metal products	-	1 933	707	78.3	988.4	58.2	119.1	658.3	2 234.9	2 459.3	4 666.6	159.1	67.3	1 049.5
341	Metal cans and shipping containers ---	-	39	31	4.6	80.8	3.8	8.1	63.5	241.8	455.6	693.4	12.2	4.0	137.1
3411	Metal cans ---	-	25	22	3.6	67.8	3.0	6.5	54.1	207.0	404.4	607.8	9.5	3.3	123.4
3412	Metal barrels, drums, and pails ---	-	14	9	1.0	13.0	0.8	1.6	9.4	34.8	51.2	85.5	2.7	0.7	13.7
342	Cutlery, hand tools, and hardware ---	E1	70	18	1.6	15.6	1.3	2.3	10.3	34.4	35.1	68.8	4.2	0.6	8.4
3423	Hand and edge tools, n.e.c. ---	-	23	4	0.8	8.1	0.6	1.2	5.3	18.4	17.4	35.1	1.8	(NA)	(NA)
3429	Hardware, n.e.c. ---	E2	43	14	0.8	7.3	0.6	1.1	4.9	15.7	17.5	33.1	2.3	CC	(D)
343	Plumbing and heating, except electric ---	-	48	17	2.5	26.5	1.8	3.6	16.1	61.2	76.0	135.4	(D)	EE	(D)
3431	Metal sanitary ware ---	-	10	2	0.4	4.9	0.3	0.6	3.2	9.5	11.5	20.6	(D)	BB	(D)
3432	Plumbing fittings and brass goods ---	-	9	4	0.9	7.6	0.8	1.6	6.2	23.7	39.0	60.2	1.7	CC	(D)
3433	Heating equipment, except electric ---	E1	28	11	1.1	14.1	0.7	1.4	6.7	28.1	25.5	54.7	0.7	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
34	Fabricated metal products—Con.														
344	Fabricated structural metal products -----	-	928	362	36.7	438.9	27.3	55.6	283.5	924.0	1 135.1	2 065.3	59.9	29.2	431.8
3441	Fabricated structural metal -----	-	176	104	9.9	119.5	7.4	15.8	77.4	229.4	286.2	513.5	18.2	8.1	102.8
3442	Metal doors, sash, and trim -----	-	105	36	4.9	43.6	4.0	8.4	29.3	93.0	125.3	216.5	3.6	FF	(D)
3443	Fabricated plate work (boiler shops) -----	-	185	106	11.0	150.7	8.3	16.6	102.4	338.3	313.5	661.8	24.2	8.0	127.7
3444	Sheet metal work -----	E2	235	59	4.4	48.4	3.2	6.1	31.1	83.9	130.1	222.5	4.6	3.9	65.0
3446	Architectural metal work -----	E1	123	12	1.7	16.4	1.3	2.6	10.6	33.7	30.9	64.7	1.3	1.0	12.2
3448	Prefabricated metal buildings -----	E1	63	25	2.9	36.9	2.0	3.8	20.3	88.9	137.2	225.5	3.4	CC	(D)
3449	Miscellaneous metal work -----	-	41	20	1.8	23.3	1.1	2.3	12.4	46.9	111.9	160.8	4.7	1.9	35.1
345	Screw machine products, bolts, etc. -----	E2	47	23	1.8	22.3	1.3	2.7	14.3	56.9	41.1	98.1	2.7	1.0	15.8
3451	Screw machine products -----	E1	17	9	0.4	5.2	0.3	0.7	3.5	11.6	8.6	19.9	0.6	0.3	4.1
3452	Bolts, nuts, rivets, and washers -----	E2	30	14	1.4	17.1	1.0	2.0	10.8	45.3	32.5	78.2	2.1	0.7	11.7
346	Metal forgings and stampings -----	-	103	40	4.0	53.3	3.1	6.3	35.8	149.0	138.0	282.2	23.3	2.5	43.6
3462	Iron and steel forgings -----	-	32	17	2.4	36.3	1.9	3.9	25.2	112.6	108.8	216.6	21.5	1.3	27.9
3465	Automotive stampings -----	E1	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3469	Metal stampings, n.e.c. -----	E2	60	20	1.3	14.4	1.0	2.0	9.9	28.8	21.8	50.2	(D)	0.7	9.7
347	Metal services, n.e.c. -----	E1	245	62	4.8	53.0	4.0	8.5	40.4	111.6	61.3	172.0	7.6	FF	(D)
3471	Plating and polishing -----	E2	133	22	1.6	15.7	1.3	2.6	11.4	29.2	11.4	41.0	1.2	EE	(D)
3479	Metal coating and allied services -----	-	112	40	3.2	37.3	2.7	5.8	29.0	82.4	49.8	130.9	6.3	2.5	39.4
348	Ordinance and accessories, n.e.c. -----	-	23	5	4.5	59.8	3.0	4.7	28.9	101.6	13.1	118.9	(D)	9.7	75.8
3483	Ammunition, except for small arms, n.e.c. -----	-	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3489	Ordinance and accessories, n.e.c. -----	-	8	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
349	Miscellaneous fabricated metal products -----	-	430	149	18.0	238.3	13.6	27.3	164.4	554.3	504.0	1 032.5	46.0	14.5	250.6
3493	Steel springs, except wire -----	-	8	3	0.3	3.9	0.2	0.4	2.4	8.4	5.4	13.7	(D)	(NA)	(NA)
3494	Valves and pipe fittings -----	-	97	53	8.6	115.7	6.3	13.0	78.9	278.1	236.3	499.0	23.4	7.3	120.4
3495	Wire springs -----	-	12	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3496	Miscellaneous fabricated wire products -----	E4	63	15	1.2	10.0	1.0	1.9	6.8	25.6	34.2	58.8	1.1	1.7	23.8
3497	Metal foil and leaf -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3498	Fabricated pipe and fittings -----	-	69	38	4.9	80.2	3.8	7.6	56.8	174.8	170.5	338.1	14.0	2.5	59.4
3499	Fabricated metal products, n.e.c. -----	E2	180	32	2.3	22.1	1.8	3.5	14.6	49.7	47.1	95.1	7.1	2.2	34.3
35	Machinery, except electrical -----	-	2 794	713	115.4	1 587.4	77.2	154.7	905.3	3 862.1	3 015.5	6 831.5	331.8	70.8	1 449.9
351	Engines and turbines -----	-	23	11	1.9	26.6	1.0	2.5	13.5	43.3	126.9	173.9	2.9	0.5	9.3
3519	Internal combustion engines, n.e.c. -----	-	20	9	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
352	Farm and garden machinery -----	E1	137	39	3.4	38.6	2.5	4.9	22.9	93.5	130.3	221.2	7.7	1.9	28.7
3523	Farm machinery and equipment -----	E2	132	36	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3524	Lawn and garden equipment -----	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
353	Construction and related machinery -----	-	395	214	49.0	710.5	33.7	70.7	448.5	1 870.9	1 286.1	3 171.5	174.1	31.5	640.0
3531	Construction machinery -----	-	61	32	4.4	56.8	3.3	6.8	38.5	109.4	139.9	247.7	6.5	4.8	82.7
3532	Mining machinery -----	-	12	7	0.7	9.0	0.6	1.2	6.2	31.3	33.0	64.9	4.8	CC	(D)
3533	Oil field machinery -----	-	237	133	39.8	594.2	26.9	57.1	373.5	1 632.5	1 011.5	2 659.5	158.7	FF	(D)
3534	Elevators and moving stairways -----	-	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3535	Conveyors and conveying equipment -----	-	31	18	2.0	22.1	1.2	2.5	11.9	41.1	47.2	89.5	2.1	1.4	17.5
3536	Hoists, cranes, and monorails -----	E1	17	10	0.9	11.4	0.7	1.3	7.3	24.4	22.0	45.7	0.5	0.5	11.2
3537	Industrial trucks and tractors -----	E1	32	11	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
354	Metalworking machinery -----	E1	196	37	3.7	44.6	2.7	5.2	27.9	99.6	44.0	145.1	5.1	EE	(D)
3541	Machine tools, metal cutting types -----	E1	17	2	0.2	2.4	0.1	0.2	1.7	4.8	1.9	7.0	0.1	BB	(D)
3542	Machine tools, metal forming types -----	E3	10	4	0.2	2.2	0.1	0.3	1.4	3.8	2.6	6.4	(D)	0.2	2.8
3544	Special dies, tools, jigs, and fixtures -----	E3	127	15	1.1	14.6	0.9	1.9	10.6	20.9	11.5	32.0	1.9	0.6	9.2
3545	Machine tool accessories -----	-	28	9	0.4	5.6	0.4	0.6	3.4	16.8	5.7	22.0	0.5	BB	(D)
3546	Power driven hand tools -----	E1	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3549	Metalworking machinery, n.e.c. -----	-	10	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
355	Special industry machinery -----	-	137	42	4.7	67.2	3.1	6.3	34.9	149.3	104.9	251.6	12.4	3.5	65.8
3551	Food products machinery -----	-	37	13	1.0	12.8	0.6	1.3	7.0	23.5	18.7	41.2	1.1	0.7	10.4
3553	Woodworking machinery -----	E1	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3555	Printing trades machinery -----	-	11	4	0.8	11.3	0.5	1.0	6.1	35.2	25.5	61.2	(D)	CC	(D)
3559	Special industry machinery, n.e.c. -----	-	74	22	2.7	39.5	1.8	3.6	19.9	83.9	55.1	137.0	7.2	1.9	30.7

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
35	Machinery, except electrical—Con.														
356	General industrial machinery - - -	-	265	92	9.0	116.3	6.4	12.5	72.7	272.4	227.6	491.6	16.0	5.6	95.6
3561	Pumps and pumping equipment - - - - -	-	64	32	3.7	52.4	2.6	5.2	33.5	134.2	112.3	243.0	6.3	3.0	58.6
3563	Air and gas compressors - - - - -	-	20	9	0.8	10.7	0.6	1.2	6.5	28.9	26.5	53.2	3.1	BB	(D)
3564	Blowers and fans - - - - -	-	32	15	1.1	12.5	0.8	1.5	7.5	25.0	25.3	50.9	1.1	CC	(D)
3567	Industrial furnaces and ovens - - - - -	E2	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3568	Power transmission equipment, n.e.c. - - - - -	-	10	8	0.8	10.9	0.6	1.3	7.6	24.3	14.3	37.0	1.4	CC	(D)
3569	General industrial machinery, n.e.c. - - - - -	E1	84	23	2.0	22.8	1.4	2.5	13.2	46.2	42.6	87.2	3.4	0.9	12.4
357	Office and computing machines - - - - -	-	52	21	16.3	256.8	7.0	12.9	67.4	598.5	427.4	993.3	78.5	FF	(D)
3573	Electronic computing equipment - - - - -	-	41	14	6.5	96.0	2.5	4.9	28.4	240.7	111.8	346.3	(D)	FF	(D)
3574	Calculating and accounting machines - - - - -	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3579	Office machines, n.e.c. and typewriters - - - - -	-	6	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
358	Refrigeration and service machinery - - - - -	-	179	71	13.6	147.2	9.9	17.8	91.3	405.1	503.1	894.9	12.8	10.6	240.7
3581	Automatic merchandising machines - - - - -	E1	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3582	Commercial laundry equipment - - - - -	-	9	5	0.6	6.3	0.4	0.8	3.6	15.4	13.9	28.6	(D)	BB	(D)
3585	Refrigeration and heating equipment - - - - -	-	102	46	10.9	118.8	8.1	14.5	75.1	348.7	443.3	777.3	10.9	8.9	215.0
3586	Measuring and dispensing pumps - - - - -	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3589	Service industry machinery, n.e.c. - - - - -	-	57	15	1.3	15.8	0.9	1.6	8.6	28.4	34.4	66.2	1.7	EE	(D)
359	Miscellaneous machinery, except electrical - - - - -	E2	1 410	186	13.8	179.6	10.9	21.9	126.2	329.5	165.2	488.5	22.2	9.2	147.5
3592	Carburetors, pistons, rings, and valves - - - - -	E1	9	5	0.2	2.7	0.2	0.3	1.6	5.3	2.3	7.6	0.2	BB	(D)
3599	Machinery, except electrical, n.e.c. - - - - -	E2	1 401	181	13.5	176.9	10.7	21.6	124.5	324.3	162.9	480.9	22.0	FF	(D)
36	Electric and electronic equipment - - - - -	-	674	220	67.8	891.9	43.0	86.0	462.0	2 061.0	1 461.3	3 452.6	185.1	54.6	938.9
361	Electric distributing equipment - - - - -	-	47	20	2.2	26.0	1.6	3.2	15.7	59.9	76.6	135.8	(D)	1.5	26.7
3612	Transformers - - - - -	-	14	7	0.7	6.1	0.5	1.0	4.1	15.0	17.9	31.8	(D)	(NA)	(NA)
3613	Switchgear and switchboard apparatus - - - - -	-	33	13	1.5	19.9	1.1	2.2	11.7	44.9	58.7	103.9	0.8	1.4	24.9
362	Electrical industrial apparatus - - - - -	E1	76	24	2.2	31.0	1.3	2.6	14.8	54.8	58.4	106.6	8.5	EE	(D)
3621	Motors and generators - - - - -	E1	10	6	0.5	7.2	0.3	0.6	2.7	11.6	22.8	32.3	(D)	CC	(D)
3622	Industrial controls - - - - -	E1	54	12	1.1	15.9	0.7	1.4	8.3	28.3	23.7	49.8	1.3	CC	(D)
3623	Welding apparatus, electric - - - - -	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3629	Electrical industrial apparatus, n.e.c. - - - - -	E3	7	3	0.2	2.7	0.2	0.3	1.9	3.8	4.1	7.8	(D)	AA	(D)
363	Household appliances - - - - -	-	29	5	1.3	10.6	1.1	2.1	8.1	38.7	52.4	89.4	1.7	1.4	18.8
3631	Household cooking equipment - - - - -	E3	9	2	0.2	1.5	0.1	0.2	0.9	5.2	5.4	10.4	0.4	BB	(D)
3634	Electric housewares and fans - - - - -	-	9	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	6.7
3635	Household vacuum cleaners - - - - -	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
364	Electric lighting and wiring equipment - - - - -	-	58	22	2.3	24.5	1.6	3.1	13.5	64.1	64.8	128.7	2.0	3.1	54.0
3643	Current-carrying wiring devices - - - - -	E1	13	2	0.3	3.2	0.2	0.4	2.0	12.6	5.3	17.9	0.3	CC	(D)
3644	Noncurrent-carrying wiring devices - - - - -	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3645	Residential lighting fixtures - - - - -	-	18	5	0.5	4.2	0.4	0.7	2.5	9.7	13.1	22.6	0.3	BB	(D)
3646	Commercial lighting fixtures - - - - -	-	7	5	0.4	4.0	0.2	0.5	2.1	8.9	14.0	23.7	0.3	0.6	7.7
3647	Vehicular lighting equipment - - - - -	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3648	Lighting equipment, n.e.c. - - - - -	-	8	6	0.6	7.7	0.4	0.8	3.6	22.1	16.7	38.3	0.8	CC	(D)
365	Radio and TV receiving equipment - - - - -	-	47	8	2.6	20.3	2.3	4.0	15.6	66.1	101.7	161.9	(D)	EE	(D)
3651	Radio and TV receiving sets - - - - -	-	26	5	2.5	18.8	2.2	3.8	14.6	63.3	98.5	156.0	(D)	EE	(D)
366	Communication equipment - - - - -	-	146	61	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3661	Telephone and telegraph apparatus - - - - -	-	13	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3662	Radio and TV communication equipment - - - - -	-	133	53	25.6	384.2	12.9	25.9	146.1	794.0	407.8	1 192.4	74.8	FF	(D)
367	Electronic components and accessories - - - - -	-	200	53	24.1	301.1	16.6	33.8	184.1	676.5	371.6	1 021.7	70.9	FF	(D)
3671	Electron tubes, all types - - - - -	E1	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3674	Semiconductors and related devices - - - - -	-	36	16	19.5	255.0	13.0	26.9	156.7	568.6	305.3	849.9	65.7	FF	(D)
3675	Electronic capacitors - - - - -	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3676	Electronic resistors - - - - -	-	3	3	1.1	9.9	0.7	1.5	5.6	24.4	13.6	36.5	2.0	CC	(D)
3677	Electronic coils and transformers - - - - -	-	8	5	0.4	2.5	0.3	0.6	1.9	4.7	4.4	9.1	0.1	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
36	Electric and electronic equipment—Con.														
367	Electronic components and accessories—Con.														
3678	Electronic connectors -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3679	Electronic components, n.e.c. -----	E3	141	24	2.1	23.5	1.6	3.1	12.7	46.7	33.1	79.7	2.3	EE	(D)
369	Miscellaneous electrical equipment and supplies -----	-	71	27	3.8	43.2	2.8	5.5	28.5	108.4	105.8	208.3	7.9	3.8	69.9
3691	Storage batteries -----	-	16	9	1.8	22.7	1.5	3.0	17.4	52.1	72.7	121.3	4.5	1.7	30.7
3693	X-ray, electromedical, and electrotherapeutic apparatus -----	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3694	Engine electrical equipment -----	E1	16	8	0.5	4.1	0.4	0.7	3.1	8.1	6.3	14.2	0.5	0.3	3.4
3699	Electrical equipment and supplies, n.e.c. -----	E2	34	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
37	Transportation equipment -----	-	635	198	61.1	947.0	39.2	77.7	534.2	2 023.6	2 188.6	4 105.2	62.8	67.4	1 260.6
371	Motor vehicles and equipment -----	-	242	81	13.6	194.1	10.9	23.4	148.5	456.6	1 234.7	1 683.8	(D)	11.0	286.7
3711	Motor vehicles and car bodies -----	-	15	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3713	Truck and bus bodies -----	-	34	16	1.3	13.3	1.0	2.0	9.1	26.7	27.4	54.5	1.9	(NA)	(NA)
3714	Motor vehicle parts and accessories -----	E2	148	35	3.7	38.7	2.7	5.5	25.4	87.2	108.3	191.6	5.1	3.1	48.9
3715	Truck trailers -----	-	39	19	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3716	Motor homes produced on purchased chassis -----	-	6	6	0.7	6.7	0.6	1.1	4.0	11.4	41.5	52.1	0.4	(NA)	(NA)
372	Aircraft and parts -----	-	72	30	32.7	580.2	16.7	33.4	265.2	1 252.7	637.5	1 797.2	(D)	FF	(D)
3721	Aircraft -----	-	24	13	30.1	547.7	14.6	29.6	243.3	1 190.1	608.5	1 707.9	27.8	FF	(D)
3724	Aircraft engines and engine parts -----	E1	10	4	0.5	5.4	0.4	0.8	3.7	9.0	3.1	11.6	0.1	EE	(D)
3728	Aircraft equipment, n.e.c. -----	-	38	13	2.1	27.0	1.6	3.0	18.2	53.5	25.9	77.8	(D)	EE	(D)
373	Ship and boat building and repairing -----	-	189	53	11.0	131.2	8.6	15.3	92.0	212.2	149.6	360.6	(D)	12.6	126.6
3731	Ship building and repairing -----	-	54	29	7.9	101.0	6.3	10.8	73.0	155.9	85.8	241.6	6.6	FF	(D)
3732	Boat building and repairing -----	E1	135	24	3.1	30.2	2.3	4.4	19.1	56.4	63.9	118.9	(D)	FF	(D)
3743	Railroad equipment -----	-	8	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
376	Guided missiles, space vehicles, parts -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3764	Space propulsion units and parts -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
379	Miscellaneous transportation equipment -----	-	112	30	2.5	23.1	2.0	3.7	16.0	53.5	100.9	154.1	(D)	3.6	46.2
3792	Travel trailers and campers -----	-	63	16	1.3	12.3	1.1	1.9	8.5	28.8	60.7	89.9	1.2	2.4	28.5
3799	Transportation equipment, n.e.c. -----	E1	48	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	17.7
38	Instruments and related products -----	E1	352	105	14.1	151.6	9.7	18.5	82.9	435.7	276.3	599.2	24.7	8.6	177.0
3811	Engineering and scientific instruments -----	E4	43	14	1.2	14.6	0.9	1.8	8.8	30.6	18.0	47.1	1.5	1.5	21.8
382	Measuring and controlling devices -----	E1	120	43	4.1	50.3	2.7	5.0	25.0	128.4	64.6	185.3	8.1	2.8	51.4
3822	Environmental controls -----	E6	9	5	0.3	3.7	0.3	0.5	2.4	7.6	3.5	10.8	(D)	0.2	2.8
3823	Process control instruments -----	E2	33	14	1.4	16.6	0.9	1.7	7.7	43.4	24.8	66.0	2.3	BB	(D)
3824	Fluid meters and counting devices -----	-	6	3	0.3	4.1	0.2	0.4	2.2	9.0	3.8	12.3	(D)	BB	(D)
3825	Instruments to measure electricity -----	E1	31	10	1.2	14.5	0.8	1.4	6.2	35.1	19.1	52.1	3.1	1.3	21.9
3829	Measuring and controlling devices, n.e.c. -----	E1	41	11	0.9	11.4	0.6	1.1	6.4	33.3	13.5	44.1	1.6	0.6	6.2
3832	Optical instruments and lenses -----	-	19	7	1.5	15.7	1.1	2.1	9.0	29.5	16.9	46.8	1.2	0.6	9.5
384	Medical instruments and supplies -----	-	114	25	4.4	44.0	3.0	5.8	23.9	186.7	86.4	268.3	9.7	EE	(D)
3841	Surgical and medical instruments -----	E2	32	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3842	Surgical appliances and supplies -----	-	63	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3851	Ophthalmic goods -----	E1	28	6	0.5	4.3	0.4	0.8	3.0	12.9	6.1	18.9	0.6	0.2	2.6
3861	Photographic equipment and supplies -----	E2	21	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3873	Watches, clocks, and watchcases -----	-	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expen- ditures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
39	Miscellaneous manufacturing industries -----	E1	733	130	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.0	132.9
391	Jewelry, silverware, and plated ware -----	-	82	12	2.0	19.2	1.3	2.7	10.2	51.7	38.7	88.4	(D)	EE	(D)
3911	Jewelry, precious metal -----	-	58	12	1.9	18.2	1.3	2.5	9.6	49.4	36.0	83.4	(D)	EE	(D)
3931	Musical instruments -----	E1	12	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
394	Toys and sporting goods -----	-	119	24	3.3	29.0	2.8	5.3	19.3	75.2	66.9	140.5	(D)	3.1	37.3
3944	Games, toys, and children's vehicles -----	E1	24	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3949	Sporting and athletic goods, n.e.c. -----	-	93	20	3.0	26.1	2.5	4.7	17.5	59.6	51.5	109.6	2.3	2.4	30.5
395	Pens, pencils, office and art supplies -----	-	53	9	0.8	6.3	0.6	1.1	3.5	12.8	16.5	29.1	(D)	0.4	7.2
3951	Pens and mechanical pencils -----	-	8	5	0.5	2.9	0.4	0.6	1.6	4.5	5.7	10.1	0.4	(NA)	(NA)
3953	Marking devices -----	E3	39	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.2
396	Costume jewelry and notions --	E1	27	8	0.5	3.9	0.4	0.8	2.4	9.1	6.6	15.6	(D)	BB	(D)
3962	Artificial flowers -----	-	13	6	0.3	2.2	0.3	0.5	1.4	4.6	2.8	7.4	(D)	AA	(D)
398	Miscellaneous manufactures ---	E2	440	76	5.3	53.8	4.0	7.2	32.1	106.7	81.0	186.4	(D)	4.9	63.0
3981	Brooms and brushes -----	E1	25	4	0.3	2.2	0.2	0.4	1.5	3.7	5.4	9.2	0.2	0.4	2.6
3983	Signs and advertising displays -----	E2	224	37	2.6	29.5	1.9	3.5	17.8	51.0	30.8	81.8	1.9	2.5	38.1
3995	Burial caskets -----	-	22	7	0.3	3.2	0.2	0.5	1.8	5.4	7.8	13.0	(D)	0.5	6.6
3999	Manufacturing industries, n.e.c. -----	E2	169	28	2.1	18.9	1.6	2.8	11.0	46.6	37.0	82.4	3.3	1.6	15.8
-	Administrative and auxiliary -----	-	529	256	44.9	917.2	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
² Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.
³ Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
201	Houston-Galveston SCSA ---	-	4 211	1 386	221.3	3 568.8	134.5	273.9	1 860.9	11 305.1	22 553.3	33 565.6	2 576.7	170.6	4 867.0
2013	Meat products -----	-	28	12	1.3	16.3	1.0	1.9	11.2	28.3	152.5	180.6	(D)	(NA)	(NA)
204	Sausages and other prepared meats -----	-	12	7	0.6	8.6	0.4	0.8	5.4	15.7	63.4	78.9	0.7	(NA)	(NA)
2044	Grain mill products -----	-	18	8	1.7	26.7	1.2	2.6	14.1	134.5	338.8	471.2	(D)	(NA)	(NA)
205	Rice milling -----	-	7	5	1.5	24.4	1.1	2.2	12.7	129.2	328.2	455.1	(D)	(NA)	(NA)
	Bakery products -----	-	29	10	2.7	37.4	1.8	3.7	22.9	100.0	62.3	162.6	(D)	(NA)	(NA)
22	Textile mill products -----	E1	19	3	0.3	2.7	0.3	0.5	2.0	3.1	3.8	6.9	0.3	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Houston-Galveston SCSA—Con.														
23	Apparel and other textile products -----	E1	82	10	1.2	9.0	1.1	2.1	6.3	14.5	19.7	34.0	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	E2	58	5	0.6	4.4	0.5	1.0	3.2	7.8	11.4	19.2	(D)	(NA)	(NA)
242	Sawmills and planing mills -----	E2	24	9	0.6	4.5	0.5	1.1	3.4	10.1	14.3	24.0	1.4	(NA)	(NA)
2431	Millwork -----	E2	19	7	0.5	5.9	0.3	0.6	2.7	7.8	23.4	30.9	0.4	(NA)	(NA)
244	Wood containers -----	-	12	4	0.4	4.6	0.3	0.6	2.7	7.2	5.4	12.7	0.2	(NA)	(NA)
249	Miscellaneous wood products -----	-	31	7	0.5	5.1	0.4	0.9	3.5	8.2	23.8	32.1	1.1	(NA)	(NA)
2498	Wood products, n.e.c. -----	E1	28	4	0.3	2.9	0.3	0.5	2.0	6.5	9.7	16.2	(D)	(NA)	(NA)
251	Household furniture -----	E3	49	19	1.0	7.9	0.8	1.5	5.6	15.7	18.3	33.9	0.5	(NA)	(NA)
254	Partitions and fixtures -----	E1	23	9	0.8	10.6	0.6	1.0	6.3	16.3	20.6	36.9	0.7	(NA)	(NA)
2643	Bags, except textile bags -----	-	6	3	0.5	5.3	0.4	0.9	4.2	10.9	17.3	28.1	1.5	(NA)	(NA)
265	Paperboard containers and boxes -----	-	19	13	1.1	14.4	0.8	1.8	9.5	25.8	54.4	80.0	2.6	(NA)	(NA)
2653	Corrugated and solid fiber boxes -----	-	13	10	1.0	12.1	0.7	1.5	7.8	21.1	45.6	66.6	2.4	(NA)	(NA)
27	Printing and publishing -----	E1	552	80	11.6	142.1	5.7	10.7	68.9	276.2	160.8	436.4	12.3	8.6	143.2
2761	Manifold business forms -----	-	8	5	0.4	4.5	0.2	0.5	2.6	9.7	8.1	17.6	0.4	(NA)	(NA)
278	Blankbooks and bookbinding -----	E2	17	9	0.6	7.0	0.5	1.0	4.8	12.9	4.8	17.6	0.5	(NA)	(NA)
2782	Blankbooks and looseleaf binders -----	-	7	6	0.4	5.1	0.4	0.7	3.3	9.8	3.8	13.6	(D)	(NA)	(NA)
279	Printing trade services -----	E1	50	8	0.5	7.1	0.4	0.7	5.0	11.7	2.4	14.1	0.6	(NA)	(NA)
2791	Typesetting -----	E1	43	7	0.3	4.4	0.3	0.5	3.1	7.3	1.1	8.5	0.3	(NA)	(NA)
2819	Industrial inorganic chemicals, n.e.c. -----	-	19	11	0.8	13.1	0.5	1.0	8.1	48.5	52.8	98.1	21.3	(NA)	(NA)
284	Soaps, cleaners, and toilet goods -----	E1	34	3	0.3	4.9	0.2	0.4	2.8	32.0	49.3	81.0	(D)	(NA)	(NA)
2851	Paints and allied products -----	E1	30	16	1.2	17.3	0.5	1.1	6.0	57.1	79.8	136.1	(D)	(NA)	(NA)
29	Petroleum and coal products -----	-	43	23	13.1	269.3	8.3	17.9	165.4	1 639.1	10 878.9	12 444.0	(D)	11.4	654.8
295	Paving and roofing materials -----	-	8	5	0.4	4.1	0.3	0.6	3.2	12.9	24.8	37.7	(D)	(NA)	(NA)
3069	Fabricated rubber products, n.e.c. -----	-	18	9	0.9	11.7	0.7	1.3	7.6	22.0	12.1	34.0	(D)	(NA)	(NA)
3231	Products of purchased glass -----	-	11	3	0.3	3.0	0.2	0.4	2.1	6.7	6.6	13.1	(D)	(NA)	(NA)
3241	Cement, hydraulic -----	-	4	4	0.5	9.7	0.4	0.8	7.6	38.3	47.5	86.2	(D)	(NA)	(NA)
3293	Gaskets, packing, and sealing devices -----	-	19	8	0.8	10.6	0.7	1.3	6.7	22.8	21.8	44.3	0.7	(NA)	(NA)
3412	Metal barrels, drums, and pails -----	-	8	5	0.5	7.7	0.4	1.0	5.5	22.6	30.9	53.0	1.9	(NA)	(NA)
3442	Metal doors, sash, and trim -----	-	17	6	0.8	7.6	0.6	1.2	4.3	16.5	20.6	36.8	0.8	(NA)	(NA)
3444	Sheet metal work -----	E3	64	18	1.2	13.9	0.8	1.4	7.9	27.0	36.1	62.6	1.7	(NA)	(NA)
3448	Prefabricated metal buildings -----	E1	23	13	2.0	25.7	1.4	2.6	14.7	61.5	88.6	150.4	2.1	(NA)	(NA)
3449	Miscellaneous metal work -----	-	14	9	0.4	5.6	0.2	0.5	2.7	11.1	31.8	44.2	0.3	(NA)	(NA)
345	Screw machine products, bolts, etc. -----	E2	22	10	1.0	12.4	0.8	1.6	8.4	29.2	23.5	53.1	1.5	(NA)	(NA)
3452	Bolts, nuts, rivets, and washers -----	E2	16	8	1.0	11.4	0.7	1.4	7.6	26.3	21.1	47.9	1.4	(NA)	(NA)
346	Metal forgings and stampings -----	-	35	14	1.9	28.1	1.4	2.8	18.5	94.0	77.8	166.1	(D)	(NA)	(NA)
3462	Iron and steel forgings -----	-	15	8	1.4	22.0	1.0	2.1	14.4	79.7	67.7	142.0	(D)	(NA)	(NA)
3469	Metal stampings, n.e.c. -----	-	20	6	0.5	6.1	0.4	0.8	4.1	14.3	10.1	24.2	0.3	(NA)	(NA)
3471	Plating and polishing -----	E3	37	6	0.5	5.0	0.4	0.8	3.7	9.4	3.4	12.8	(D)	(NA)	(NA)
3496	Miscellaneous fabricated wire products -----	E7	21	5	0.4	4.3	0.3	0.7	3.0	11.6	17.0	28.4	0.4	(NA)	(NA)
35	Machinery, except electrical -----	-	913	260	42.2	623.0	28.0	57.8	375.9	1 458.5	1 024.6	2 518.1	142.3	(NA)	(NA)
352	Farm and garden machinery -----	-	11	2	0.4	4.9	0.2	0.4	1.7	23.1	18.7	41.8	0.6	(NA)	(NA)
353	Construction and related machinery -----	-	162	93	27.8	421.7	18.2	37.7	255.5	1 073.6	676.0	1 786.0	119.5	(NA)	(NA)
3531	Construction machinery -----	E1	18	8	0.8	10.4	0.6	1.1	6.6	25.3	26.1	50.7	1.1	(NA)	(NA)
3533	Oil field machinery -----	-	119	72	25.7	394.0	16.8	34.9	238.4	1 007.0	604.8	1 650.2	116.5	(NA)	(NA)
3536	Hoists, cranes, and monorails -----	E2	10	4	0.5	7.1	0.4	0.8	4.7	15.3	13.1	28.0	0.3	(NA)	(NA)
356	General industrial machinery -----	E1	94	40	3.0	41.0	1.9	3.8	22.9	76.8	67.4	143.9	3.7	(NA)	(NA)
3561	Pumps and pumping equipment -----	-	19	13	1.1	16.4	0.7	1.4	9.4	27.5	24.9	52.2	1.0	(NA)	(NA)
3564	Blowers and fans -----	-	11	7	0.5	6.2	0.3	0.5	3.0	9.1	11.5	21.4	0.6	(NA)	(NA)
3569	General industrial machinery, n.e.c. -----	E1	33	11	0.6	8.0	0.4	0.8	4.4	17.0	15.9	32.3	1.0	(NA)	(NA)
358	Refrigeration and service machinery -----	E1	33	8	0.6	7.5	0.5	0.8	4.5	16.3	17.7	33.4	0.8	(NA)	(NA)
361	Electric distributing equipment -----	-	22	7	0.9	14.0	0.7	1.4	8.0	31.0	37.9	69.4	(D)	(NA)	(NA)
366	Communication equipment -----	-	25	11	2.3	32.3	1.5	2.9	15.8	77.0	56.3	125.8	4.3	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Houston-Galveston SCSA-- Con.														
369	Miscellaneous electrical equipment and supplies --	-	28	9	1.0	10.4	0.5	1.0	4.1	36.2	12.4	46.6	2.1	(NA)	(NA)
37	Transportation equipment ---	E1	120	38	4.2	57.1	3.4	6.8	43.1	104.2	95.8	194.8	4.5	(NA)	(NA)
371	Motor vehicles and equipment -----	E4	37	10	0.5	6.2	0.4	0.8	4.5	13.1	17.3	30.1	0.9	(NA)	(NA)
3731	Ship building and repairing -----	-	27	15	2.4	34.1	2.0	4.0	26.9	53.6	26.2	79.8	(D)	(NA)	(NA)
3841	Surgical and medical instruments -----	-	9	4	0.3	3.1	0.1	0.3	1.3	4.9	3.3	8.4	0.4	(NA)	(NA)
384	Toys and sporting goods ---	E2	30	3	0.3	2.6	0.2	0.5	1.8	5.0	5.2	10.2	0.4	(NA)	(NA)
3999	Manufacturing industries, n.e.c. -----	E2	35	6	0.4	4.1	0.3	0.6	2.4	12.6	10.6	22.5	0.5	(NA)	(NA)
	Abilene SMSA -----	-	141	43	5.8	51.4	4.1	8.2	33.5	106.9	510.1	620.3	8.1	5.2	62.5
20	Food and kindred products --	-	25	13	1.4	13.7	0.9	2.1	8.2	40.8	137.0	175.0	4.0	1.3	19.2
205	Bakery products -----	-	5	4	0.4	4.6	0.2	0.5	2.2	10.8	8.8	19.6	(D)	(NA)	(NA)
23	Apparel and other textile products -----	-	6	3	0.9	5.0	0.8	1.3	4.1	5.8	2.7	8.3	(D)	(NA)	(NA)
27	Printing and publishing -----	-	23	4	0.4	4.0	0.2	0.3	1.8	10.2	3.6	13.8	0.3	0.4	4.1
34	Fabricated metal products ---	-	9	5	0.5	4.4	0.4	0.8	3.0	13.8	26.4	38.5	0.6	0.3	4.8
	Amarillo SMSA -----	-	211	60	7.7	94.0	5.5	11.2	59.7	474.8	1 534.0	2 006.3	16.1	5.4	68.8
27	Printing and publishing -----	E2	38	6	0.5	5.6	0.3	0.5	2.7	14.7	7.0	21.7	0.6	0.7	9.3
32	Stone, clay, and glass products -----	-	14	6	0.3	3.9	0.2	0.4	2.4	11.8	13.6	25.8	1.5	(NA)	(NA)
35	Machinery, except electrical -	-	31	9	0.6	7.1	0.4	0.8	4.4	14.6	22.4	37.2	2.8	(NA)	(NA)
352	Farm and garden machinery -----	-	7	4	0.3	2.9	0.2	0.3	1.3	4.3	13.4	18.5	(D)	(NA)	(NA)
3523	Farm machinery and equipment -----	-	7	4	0.3	2.9	0.2	0.3	1.3	4.3	13.4	18.5	(D)	(NA)	(NA)
	Austin SMSA -----	-	527	135	20.7	259.0	11.4	21.6	100.1	553.6	479.6	1 001.6	75.5	14.0	250.3
20	Food and kindred products ---	E1	45	17	1.5	15.0	0.8	1.5	6.1	34.2	58.1	91.9	3.2	1.3	17.1
205	Bakery products -----	-	7	3	0.4	4.0	0.2	0.4	1.8	7.3	6.9	14.2	(D)	0.4	4.8
2051	Bread, cake, and related products -----	-	7	3	0.4	4.0	0.2	0.4	1.8	7.3	6.9	14.2	(D)	0.4	4.8
208	Beverages -----	-	9	4	0.4	4.5	0.1	0.3	1.0	10.5	13.5	23.9	1.3	(NA)	(NA)
23	Apparel and other textile products -----	-	18	8	0.6	3.4	0.6	1.2	3.0	4.3	3.5	7.7	0.1	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	-	7	3	0.3	1.7	0.2	0.5	1.5	2.1	2.8	4.8	(D)	(NA)	(NA)
24	Lumber and wood products --	E1	31	5	0.4	3.7	0.3	0.5	2.2	6.6	11.9	18.4	(D)	0.5	4.4
243	Millwork, plywood, and structural members -----	-	21	3	0.3	2.7	0.2	0.4	1.5	5.2	9.9	14.9	(D)	0.3	2.7
25	Furniture and fixtures -----	-	25	9	1.9	14.5	1.6	3.1	10.0	24.5	27.4	51.1	(D)	1.1	9.2
251	Household furniture -----	-	17	6	1.7	12.0	1.4	2.7	8.5	18.4	22.7	40.3	(D)	1.1	8.6
27	Printing and publishing -----	E1	134	21	2.1	23.7	1.0	1.8	9.8	54.0	25.5	79.4	2.4	1.9	28.6
2711	Newspapers -----	-	16	3	0.8	8.8	0.3	0.5	2.8	20.7	7.7	28.4	0.7	(NA)	(NA)
273	Books -----	E2	16	5	0.3	3.3	0.1	0.2	0.8	10.3	4.7	15.1	(D)	(NA)	(NA)
28	Chemicals and allied products -----	E2	22	6	0.3	3.5	0.2	0.3	1.9	9.3	12.1	21.5	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	E2	24	5	0.3	2.8	0.3	0.5	1.9	6.4	8.0	14.2	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	36	7	0.6	7.3	0.5	1.1	5.3	21.0	18.5	39.5	(D)	0.5	8.4
327	Concrete, gypsum, and plaster products -----	-	24	6	0.6	6.5	0.4	1.0	4.6	19.1	17.5	36.8	1.7	0.4	7.6
34	Fabricated metal products ---	E3	33	10	0.6	6.2	0.4	0.9	4.1	10.9	19.3	30.1	1.6	(NA)	(NA)
344	Fabricated structural metal products -----	E2	17	4	0.3	3.5	0.2	0.5	2.2	5.7	15.3	20.9	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E1	23	5	0.4	3.3	0.3	0.6	2.5	6.1	2.2	8.3	(D)	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E1	23	5	0.4	3.3	0.3	0.6	2.5	6.1	2.2	8.3	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	33	15	4.3	53.2	1.9	3.7	19.0	148.6	59.2	203.2	17.1	2.3	40.5
38	Instruments and related products -----	E1	21	8	0.7	7.9	0.4	0.7	3.4	18.8	9.8	27.5	2.0	0.3	5.0
39	Miscellaneous manufacturing industries ---	E1	26	5	0.6	5.6	0.4	0.7	2.6	14.7	7.0	21.9	(D)	0.6	5.1
-	Administrative and auxiliary --	-	8	3	0.4	5.4	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials² (million dollars)	Value of shipments² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Beaumont-Port Arthur-Orange SMSA -----	-	344	121	38.3	683.3	27.6	55.1	455.8	2 626.3	8 401.6	10 959.0	556.0	37.6	1 034.0
20	Food and kindred products --	-	21	9	0.9	10.0	0.5	0.8	3.9	23.9	49.4	72.9	2.9	0.9	16.6
208	Beverages -----	E1	4	3	0.4	4.0	0.2	0.2	1.4	10.3	13.0	23.3	(D)	0.3	4.0
2086	Bottled and canned soft drinks -----	E1	4	3	0.4	4.0	0.2	0.2	1.4	10.3	13.0	23.3	(D)	0.3	4.0
24	Lumber and wood products --	-	29	9	1.0	12.1	0.9	2.2	8.8	26.4	31.0	57.2	2.8	1.8	23.8
27	Printing and publishing -----	E1	39	5	0.8	6.9	0.3	0.6	2.6	17.9	6.2	24.1	0.5	0.8	12.2
2711	Newspapers -----	-	8	4	0.6	5.2	0.2	0.4	1.6	14.5	4.2	18.8	(D)	0.6	9.7
28	Chemicals and allied products -----	-	27	22	9.8	211.7	6.3	13.2	125.2	817.6	1 431.9	2 246.4	221.8	8.9	439.3
282	Plastics materials and synthetics -----	-	9	9	4.2	85.1	3.0	6.2	59.2	255.5	591.9	847.3	(D)	4.9	180.8
286	Industrial organic chemicals -----	-	7	7	5.2	120.1	3.0	6.4	62.3	523.4	779.7	1 304.9	115.3	3.7	238.2
29	Petroleum and coal products -----	-	15	12	13.8	279.0	10.8	22.4	207.9	1 433.5	6 561.2	7 921.9	286.5	14.1	366.8
30	Rubber and miscellaneous plastics products -----	-	11	4	0.4	5.5	0.3	0.7	4.2	14.3	31.0	43.9	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	E1	20	7	0.5	7.9	0.4	0.8	6.0	25.7	22.5	48.5	6.6	0.3	6.0
3273	Ready-mixed concrete --	E2	7	4	0.3	4.8	0.3	0.5	3.4	14.3	16.7	31.0	4.0	(NA)	(NA)
34	Fabricated metal products ---	-	52	20	2.8	39.4	2.1	4.2	27.2	71.3	100.6	178.0	4.8	2.2	38.7
341	Metal cans and shipping containers -----	-	4	3	0.5	7.8	0.4	0.7	5.6	14.8	28.6	44.8	(D)	(NA)	(NA)
344	Fabricated structural metal products -----	-	23	10	1.3	18.4	0.9	1.9	12.2	29.6	38.0	71.3	2.4	0.6	8.7
346	Metal forgings and stampings -----	-	5	3	0.3	5.1	0.2	0.6	3.7	12.0	18.0	30.2	(D)	0.4	8.7
35	Machinery, except electrical -	-	45	10	0.9	12.9	0.7	1.5	9.5	18.0	24.1	44.5	1.3	0.8	16.8
359	Miscellaneous machinery, except electrical -----	E2	29	6	0.3	3.7	0.2	0.4	2.6	6.6	2.8	9.0	(D)	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E2	29	6	0.3	3.7	0.2	0.4	2.6	6.6	2.8	9.0	(D)	(NA)	(NA)
37	Transportation equipment ---	-	31	10	4.3	53.0	3.4	4.9	36.1	81.6	40.2	122.3	(D)	5.1	43.2
373	Ship and boat building and repairing -----	-	27	9	4.3	52.5	3.4	4.9	35.7	80.5	38.4	119.4	(D)	5.0	42.7
--	Administrative and auxiliary --	-	11	3	0.5	10.4	-	-	-	-	-	-	-	(NA)	(NA)
	Brownsville-Harlingen-San Benito SMSA -----	-	151	56	9.0	74.3	6.9	13.6	47.7	201.3	286.9	484.8	19.2	5.9	101.0
20	Food and kindred products --	-	31	17	2.2	17.9	1.5	2.9	9.8	49.0	95.0	143.3	2.3	2.8	31.2
23	Apparel and other textile products -----	-	14	6	2.3	14.1	2.2	4.3	12.6	31.3	28.1	59.5	(D)	(NA)	(NA)
27	Printing and publishing -----	E1	17	4	0.3	2.1	0.2	0.3	1.0	5.6	2.0	7.7	0.1	0.3	3.3
32	Stone, clay, and glass products -----	-	11	3	0.7	5.0	0.5	1.0	3.3	25.0	20.3	43.5	1.0	0.3	5.2
34	Fabricated metal products ---	E1	12	5	0.3	3.2	0.3	0.5	2.0	5.6	5.8	11.5	0.1	0.3	2.7
36	Electric and electronic equipment -----	-	7	5	0.6	4.6	0.5	1.0	3.2	15.0	20.8	34.9	0.6	0.5	10.4
	Bryan-College Station SMSA -	-	63	22	2.1	22.2	1.6	3.3	15.4	55.5	72.2	127.3	4.9	2.0	27.8
27	Printing and publishing -----	-	16	3	0.3	3.2	0.2	0.4	1.8	8.8	4.7	13.5	(D)	(NA)	(NA)
	Corpus Christi SMSA -----	-	248	73	12.1	178.6	8.2	16.6	109.5	734.7	3 183.1	3 875.2	398.1	10.9	282.0
20	Food and kindred products --	-	29	15	2.1	24.7	1.2	2.4	13.1	42.6	138.2	181.7	4.8	1.6	26.1
201	Meat products -----	-	4	4	0.6	6.7	0.5	0.8	4.7	14.3	80.0	94.0	0.7	(NA)	(NA)
205	Bakery products -----	-	3	3	0.5	5.4	0.2	0.5	2.5	11.6	10.6	22.1	0.5	(NA)	(NA)
2051	Bread, cake, and related products -----	-	3	3	0.5	5.4	0.2	0.5	2.5	11.6	10.6	22.1	0.5	(NA)	(NA)
27	Printing and publishing -----	E1	43	6	0.7	7.2	0.3	0.5	2.6	18.1	6.7	24.8	0.9	0.6	10.1
28	Chemicals and allied products -----	-	14	7	3.1	59.8	2.0	4.0	35.7	234.3	392.7	617.4	(D)	2.4	97.0
29	Petroleum and coal products -----	-	6	5	1.6	32.3	1.2	3.0	24.4	366.2	2 505.4	2 819.2	(D)	1.3	62.1
32	Stone, clay, and glass products -----	-	25	8	0.5	5.6	0.3	0.8	3.7	14.8	23.6	39.2	2.0	0.7	13.0
34	Fabricated metal products ---	E1	25	6	0.4	4.4	0.3	0.6	3.1	8.1	10.4	19.2	0.2	0.3	6.8
344	Fabricated structural metal products -----	E1	17	5	0.3	3.9	0.3	0.5	2.7	6.7	9.8	17.2	(D)	(NA)	(NA)
35	Machinery, except electrical -	E1	35	5	0.4	4.4	0.3	0.6	2.8	10.1	6.0	16.0	0.5	0.3	4.9
36	Electric and electronic equipment -----	-	9	3	0.5	5.0	0.4	0.6	3.1	9.8	3.8	13.0	(D)	(NA)	(NA)
37	Transportation equipment ---	-	14	4	0.5	6.3	0.4	0.7	4.1	8.4	8.2	16.6	(D)	0.5	4.6
373	Ship and boat building and repairing -----	-	10	3	0.5	5.9	0.4	0.6	3.8	7.7	7.2	15.0	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Dallas-Fort Worth SMSA ----	-	5 505	1 750	269.9	3 508.9	171.7	339.8	1 814.4	7 869.1	8 460.5	16 116.9	500.8	230.0	4 075.7
20	Food and kindred products ----	-	293	136	19.9	253.0	12.3	25.1	144.1	872.3	1 662.8	2 533.8	62.6	17.7	431.2
201	Meat products ----	E1	48	23	2.9	31.5	2.1	4.5	21.7	67.8	344.8	412.0	3.7	2.7	42.9
2011	Meat packing plants ----	E1	24	12	1.7	20.4	1.1	2.6	13.8	44.4	231.6	275.9	2.5	1.8	30.6
202	Dairy products ----	-	25	15	1.9	25.1	0.9	2.0	11.4	78.1	203.6	281.2	6.3	1.7	37.1
2026	Fluid milk ----	-	11	10	1.6	21.3	0.7	1.5	9.0	64.9	175.8	240.5	5.7	1.4	32.9
203	Preserved fruits and vegetables ----	-	23	9	1.5	17.8	1.2	2.4	14.1	75.8	133.1	208.9	5.4	1.4	18.3
2038	Frozen specialties ----	E1	10	5	0.3	3.1	0.2	0.5	1.7	5.1	9.8	15.0	0.5	(NA)	(NA)
204	Grain mill products ----	-	37	16	1.6	17.5	1.0	2.1	10.8	54.0	171.7	225.2	2.7	1.4	34.3
2048	Prepared feeds, n.e.c. ----	-	23	9	0.7	6.7	0.4	0.8	3.9	21.7	85.6	107.4	0.7	0.5	15.1
205	Bakery products ----	-	33	14	3.1	39.2	1.8	3.3	19.2	98.2	76.7	174.9	4.4	2.8	54.3
206	Sugar and confectionery products ----	E2	15	3	0.5	5.6	0.3	0.7	3.0	12.2	15.2	32.1	0.6	1.1	14.7
2065	Confectionery products ----	E2	15	3	0.5	5.6	0.3	0.7	3.0	12.2	15.2	32.1	0.6	1.1	14.7
207	Fats and oils ----	-	15	7	0.8	11.9	0.6	1.2	8.0	46.7	169.9	215.9	3.0	0.8	32.7
2079	Shortening and cooking oils ----	-	4	4	0.5	9.3	0.4	0.8	6.3	37.7	144.4	181.0	(D)	(NA)	(NA)
208	Beverages ----	-	32	21	4.6	71.0	2.1	4.3	33.7	332.7	408.3	737.3	31.4	3.1	130.3
209	Miscellaneous foods and kindred products ----	-	65	28	3.1	33.4	2.4	4.6	22.2	106.7	139.6	246.2	5.2	2.6	66.5
2097	Manufactured ice ----	-	10	3	0.3	1.7	0.1	0.3	0.9	3.6	1.1	4.7	(D)	0.3	4.1
2099	Food preparations, n.e.c. ----	-	49	21	2.5	28.2	1.9	3.7	19.1	96.7	103.3	200.4	2.7	1.8	56.3
22	Textile mill products-----	E2	38	13	0.9	7.5	0.8	1.4	5.4	15.2	15.2	29.9	(D)	0.4	3.9
23	Apparel and other textile products-----	E1	374	170	22.4	171.0	18.5	35.0	111.2	311.9	394.9	682.0	9.6	19.7	183.2
232	Men's and boys' furnishings ----	-	28	23	4.0	27.9	3.6	7.2	22.9	56.0	64.9	117.9	(D)	4.8	48.5
2328	Men's and boys' work clothing ----	-	12	12	2.9	19.9	2.7	5.6	17.5	37.9	33.4	67.4	(D)	0.8	4.2
2329	Men's and boys' clothing, n.e.c. ----	-	3	3	0.3	2.1	0.3	0.6	1.9	2.6	2.5	5.2	(D)	(NA)	(NA)
233	Women's and misses' outerwear ----	E1	174	80	10.4	84.4	8.0	14.2	48.4	192.4	186.1	375.6	(D)	9.1	85.0
2331	Women's and misses' blouses and waists ----	E5	16	6	0.7	5.3	0.6	0.9	2.9	11.5	15.7	27.9	0.4	1.0	9.6
2335	Women's and misses' dresses ----	E1	106	35	4.0	36.7	2.9	5.2	17.1	72.3	80.6	150.4	2.5	5.7	42.2
2339	Women's and misses' outerwear, n.e.c. ----	E2	25	20	3.7	25.8	3.0	5.4	18.2	53.8	58.0	110.5	(D)	1.6	23.5
235	Hats, caps, and millinery ----	-	9	4	0.7	6.2	0.6	1.1	3.5	11.8	10.0	20.3	(D)	(NA)	(NA)
236	Children's outerwear ----	E3	8	5	0.6	3.9	0.5	1.0	2.8	6.3	3.8	10.0	(D)	0.6	5.4
238	Miscellaneous apparel and accessories ----	-	19	9	0.5	3.4	0.4	0.7	2.3	6.5	6.1	12.8	0.1	0.4	3.6
2387	Apparel belts ----	-	6	6	0.4	2.5	0.3	0.6	1.8	5.1	5.4	10.7	(D)	0.3	2.7
239	Miscellaneous fabricated textile products ----	E1	122	42	3.8	27.2	3.2	6.0	19.0	45.7	63.4	108.7	(D)	2.9	24.8
2391	Curtains and draperies ----	E1	36	10	0.8	5.4	0.7	1.2	3.8	9.9	18.7	28.5	(D)	0.7	6.3
2399	Fabricated textile products, n.e.c. ----	E1	17	6	0.9	6.5	0.7	1.2	4.2	7.7	8.6	16.1	(D)	0.5	2.8
24	Lumber and wood products--	-	220	60	5.9	50.6	5.0	9.1	36.4	101.6	189.7	287.9	(D)	5.6	67.4
243	Millwork, plywood, and structural members-----	E1	110	29	2.9	24.3	2.4	4.5	17.5	50.9	88.5	137.1	2.3	2.6	33.3
2431	Millwork-----	-	52	14	1.4	12.0	1.2	2.1	8.2	27.5	64.3	90.7	1.1	1.4	20.5
2434	Wood kitchen cabinets-----	E2	54	13	1.2	10.1	1.0	1.9	7.7	18.2	16.6	34.0	1.1	1.0	9.1
2439	Structural wood members, n.e.c. ----	-	4	2	0.3	2.2	0.2	0.5	1.6	5.2	7.6	12.4	0.1	(NA)	(NA)
244	Wood containers ----	E1	29	7	0.5	3.4	0.4	0.7	2.4	5.7	8.9	14.5	0.3	0.3	3.5
245	Wood buildings and mobile homes-----	-	24	15	1.9	18.5	1.7	3.1	13.3	36.5	77.4	113.3	(D)	2.2	24.9
2451	Mobile homes-----	-	16	12	1.7	15.5	1.5	2.7	11.4	31.2	70.5	101.1	(D)	(NA)	(NA)
2452	Prefabricated wood buildings-----	-	8	3	0.3	3.0	0.2	0.4	1.9	5.3	6.9	12.3	(D)	(NA)	(NA)
249	Miscellaneous wood products-----	E4	34	6	0.3	2.7	0.3	0.5	1.7	5.4	5.9	11.3	0.3	0.3	4.8
25	Furniture and fixtures-----	-	200	71	6.3	57.1	5.2	9.5	39.9	126.8	121.0	245.4	7.0	5.4	77.2
251	Household furniture-----	-	104	42	4.2	36.0	3.5	6.5	26.5	76.8	84.8	160.4	3.7	3.9	52.2
2511	Wood household furniture-----	E1	51	14	1.8	13.5	1.6	3.0	10.4	28.0	24.2	51.9	1.1	1.3	16.2
2515	Mattresses and bedsprings-----	-	22	11	1.0	9.7	0.8	1.5	6.6	28.2	32.8	59.8	1.7	0.9	16.3
252	Office furniture-----	-	11	6	0.3	3.3	0.2	0.4	1.9	7.5	7.2	14.4	(D)	0.3	5.3
254	Partitions and fixtures-----	E1	52	12	1.1	12.4	0.9	1.6	7.7	32.7	18.5	50.6	2.4	0.9	14.6
2541	Wood partitions and fixtures-----	E1	42	6	0.5	6.7	0.4	0.9	4.3	19.7	7.8	27.4	0.5	0.5	7.4
2542	Metal partitions and fixtures-----	-	10	8	0.6	5.8	0.4	0.8	3.4	13.0	10.8	23.2	1.9	0.4	7.3
259	Miscellaneous furniture and fixtures-----	-	25	8	0.5	3.8	0.4	0.7	2.6	7.7	7.7	15.4	0.5	(NA)	(NA)
2599	Furniture and fixtures, n.e.c.-----	E1	13	5	0.3	2.1	0.2	0.4	1.5	3.3	3.2	6.5	0.3	(NA)	(NA)
26	Paper and allied products---	-	134	70	7.3	86.5	5.3	11.1	56.7	189.4	311.9	500.3	27.9	6.5	107.7

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Dallas-Fort Worth SMSA—Con.														
26	Paper and allied products—Con.														
264	Miscellaneous converted paper products -----	-	67	30	3.1	35.7	2.2	4.6	23.3	78.2	117.6	195.9	(D)	2.9	44.3
2641	Paper coating and glazing -----	-	20	6	0.7	7.5	0.4	1.0	4.8	16.6	31.2	47.9	2.5	0.3	5.6
2642	Envelopes -----	-	9	7	0.7	8.9	0.5	1.1	5.6	17.3	19.3	36.8	(D)	0.7	11.0
2643	Bags, except textile bags -----	-	13	8	0.8	9.9	0.6	1.2	7.0	18.4	38.2	56.6	1.3	1.1	13.6
2649	Converted paper products, n.e.c. -----	E1	16	5	0.4	4.0	0.3	0.5	2.1	11.1	9.5	20.7	0.3	(NA)	(NA)
265	Paperboard containers and boxes -----	-	61	36	3.8	46.4	2.8	5.7	30.0	95.8	182.3	277.1	22.0	3.1	56.5
2651	Folding paperboard boxes -----	-	10	4	0.5	6.7	0.4	0.8	4.5	15.8	22.5	38.0	3.1	(NA)	(NA)
2653	Corrugated and solid fiber boxes -----	-	41	27	2.6	33.6	1.9	3.8	21.0	65.0	127.4	191.9	17.1	2.0	35.5
27	Printing and publishing -----	-	883	160	17.9	208.0	11.9	22.5	121.3	453.8	281.1	732.8	25.1	15.2	267.7
2711	Newspapers -----	-	105	17	3.9	47.6	1.6	2.7	17.5	133.7	61.0	194.8	7.2	3.9	86.2
2721	Periodicals -----	E2	46	5	0.3	3.8	0.1	0.3	1.4	10.2	7.3	17.5	0.1	0.3	6.2
273	Books -----	E1	43	11	1.7	18.0	1.3	2.5	11.1	39.9	19.8	59.8	2.0	1.5	24.6
2732	Book printing -----	-	17	8	1.5	15.6	1.3	2.4	10.7	31.9	16.3	48.3	(D)	(NA)	(NA)
2741	Miscellaneous publishing -----	-	31	7	0.8	6.9	0.3	0.4	1.7	15.9	3.8	19.7	0.2	0.6	10.0
275	Commercial printing -----	E1	551	79	6.4	77.0	4.9	9.4	53.2	148.5	116.4	263.9	11.4	5.0	79.2
2751	Commercial printing, letterpress -----	E4	273	12	1.3	14.8	1.1	1.9	10.0	30.4	22.8	52.9	2.1	1.2	18.6
2761	Manifold business forms -----	-	20	15	2.7	30.9	1.9	4.1	18.6	62.2	53.0	114.6	1.2	2.2	35.9
278	Blankbooks and bookbinding -----	-	25	11	1.0	9.5	0.8	1.6	7.1	18.9	8.0	26.8	0.9	0.7	8.9
2782	Blankbooks and looseleaf binders -----	-	11	8	0.8	7.8	0.7	1.3	5.8	16.4	7.2	23.4	0.7	0.4	5.5
279	Printing trade services -----	-	62	15	1.1	14.2	0.8	1.5	10.6	24.5	11.6	35.8	2.1	1.0	16.8
2791	Typesetting -----	-	39	8	0.5	6.4	0.4	0.8	5.1	10.5	2.5	13.0	0.6	0.6	8.8
28	Chemicals and allied products -----	-	255	78	7.9	102.9	4.3	8.2	45.9	470.8	457.6	919.9	24.6	6.1	234.2
281	Industrial inorganic chemicals -----	-	20	8	0.6	8.1	0.4	0.9	5.4	36.1	52.2	88.0	4.2	0.6	17.3
283	Drugs -----	-	22	5	1.3	18.6	0.4	0.7	3.6	63.3	18.6	80.2	(D)	0.8	23.2
284	Soaps, cleaners, and toilet goods -----	-	65	18	1.6	21.6	1.0	2.0	12.7	145.3	125.5	270.1	(D)	1.6	102.0
2842	Polishes and sanitation goods -----	-	24	6	0.4	4.7	0.3	0.5	2.5	19.1	24.6	43.1	(D)	0.7	24.3
2844	Toilet preparations -----	E3	25	4	0.4	3.7	0.2	0.3	1.5	10.0	14.5	25.8	(D)	(NA)	(NA)
2851	Paints and allied products -----	-	29	13	1.7	22.1	0.8	1.7	9.6	96.0	134.3	228.4	(D)	1.7	48.2
287	Agricultural chemicals -----	-	16	3	0.7	6.6	0.5	0.7	2.6	23.9	17.2	40.4	1.7	0.3	9.6
289	Miscellaneous chemical products -----	E1	86	29	2.0	24.1	1.1	2.2	10.9	93.8	93.0	183.6	5.4	1.1	33.1
2891	Adhesives and sealants -----	E1	18	7	0.3	4.5	0.2	0.4	2.1	15.8	17.8	33.6	0.5	(NA)	(NA)
2899	Chemical preparations, n.e.c. -----	E1	50	14	1.2	14.6	0.7	1.3	6.4	57.3	54.7	109.6	4.2	0.6	19.8
29	Petroleum and coal products -----	-	33	12	1.8	25.3	0.9	2.0	11.3	77.4	166.7	242.0	(D)	1.6	36.6
295	Paving and roofing materials -----	-	19	10	1.6	22.6	0.8	1.8	9.6	63.3	92.5	155.5	(D)	1.4	31.3
2952	Asphalt felts and coatings -----	-	12	10	1.6	22.3	0.8	1.7	9.4	62.3	88.6	150.7	(D)	1.4	31.5
30	Rubber and miscellaneous plastics products -----	-	220	88	9.1	95.2	7.0	13.9	59.1	203.2	223.9	420.9	16.6	5.1	86.0
3069	Fabricated rubber products, n.e.c. -----	-	17	11	1.5	20.3	1.1	2.1	10.1	29.4	40.7	69.2	2.3	(NA)	(NA)
3079	Miscellaneous plastics products -----	-	199	74	6.7	64.9	5.3	10.5	42.8	155.4	155.7	308.1	13.7	3.7	62.3
31	Leather and leather products -----	E4	40	16	2.1	14.8	1.7	3.1	9.4	30.9	32.9	63.0	0.9	(NA)	(NA)
3199	Leather goods, n.e.c. -----	E1	22	7	0.7	5.1	0.5	0.8	2.5	12.0	11.8	22.6	0.3	(NA)	(NA)
32	Stone, clay, and glass products -----	-	242	76	7.7	92.8	6.1	12.3	66.0	290.3	277.5	564.6	23.5	6.4	156.6
3241	Cement, hydraulic -----	-	5	5	0.9	15.1	0.8	1.6	12.1	74.0	51.7	126.0	(D)	0.7	41.9
325	Structural clay products -----	-	12	9	1.2	10.7	0.9	1.9	6.8	33.0	29.5	61.3	(D)	1.1	17.9
3272	Concrete products, n.e.c. -----	-	54	15	1.6	18.3	1.2	2.4	11.9	39.6	33.7	71.1	3.1	1.5	28.5
3273	Ready-mixed concrete -----	-	68	21	1.3	17.0	1.0	2.1	12.2	40.7	81.1	121.7	5.9	1.3	23.9
329	Miscellaneous nonmetallic mineral products -----	-	43	11	1.3	16.1	1.0	2.1	12.2	74.0	50.5	125.1	(D)	0.9	28.9
33	Primary metal industries -----	-	102	37	5.4	67.8	4.3	8.9	48.2	138.8	204.7	343.2	12.4	3.0	52.6

See footnotes at end of table.

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SIC code	SMSA and industry	E ¹	1977											1972	
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			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Dallas-Fort Worth SMSA—Con.														
34	Fabricated metal products ---	-	594	209	19.4	216.4	14.8	30.3	142.4	497.1	622.5	1 118.1	27.3	18.9	261.9
341	Metal cans and shipping containers ---	-	10	9	1.0	17.2	0.8	1.8	13.0	60.7	98.4	158.2	2.5	0.8	23.8
342	Cutlery, hand tools, and hardware ---	-	30	11	1.2	12.1	1.0	1.8	7.9	26.9	29.0	55.2	3.9	0.3	3.1
343	Plumbing and heating, except electric ---	-	20	11	1.8	20.1	1.2	2.5	11.6	43.2	56.2	99.2	1.7	1.2	18.7
344	Fabricated structural metal products ---	-	267	93	9.2	103.4	6.9	14.7	67.3	214.7	293.4	509.4	9.7	8.9	116.7
3441	Fabricated structural metal ---	-	39	22	2.2	25.9	1.7	3.8	17.5	57.0	69.5	128.5	2.2	2.0	25.2
3442	Metal doors, sash, and trim ---	-	44	11	1.9	16.8	1.5	3.4	10.9	33.8	46.6	80.9	1.2	2.2	27.9
3443	Fabricated plate work (boiler shops) ---	E1	40	21	1.8	22.3	1.4	2.9	16.0	50.1	53.5	102.7	3.0	1.9	20.2
3444	Sheet metal work ---	E1	84	23	1.7	20.7	1.2	2.4	13.5	41.5	58.8	99.6	1.7	1.9	27.3
3448	Prefabricated metal buildings ---	-	10	4	0.4	5.6	0.3	0.5	2.4	12.9	23.0	35.4	0.8	(NA)	(NA)
345	Metal forgings and stampings ---	E1	42	18	1.3	14.0	1.0	2.0	9.9	29.6	30.5	60.1	2.1	1.1	15.4
347	Metal services, n.e.c. ---	E1	89	20	1.4	14.3	1.2	2.4	10.1	27.2	19.0	46.5	1.2	1.2	15.2
3471	Plating and polishing ---	E1	60	11	0.8	8.0	0.7	1.4	5.8	14.8	6.1	21.3	0.5	0.6	7.3
3479	Metal coating and allied services ---	-	29	9	0.6	6.2	0.5	1.0	4.4	12.5	12.8	25.3	0.7	0.6	7.9
349	Miscellaneous fabricated metal products ---	-	110	37	2.8	26.2	2.1	4.2	17.2	74.4	79.2	151.8	5.2	2.3	33.9
3494	Valves and pipe fittings ---	-	17	9	0.9	9.0	0.6	1.3	5.7	27.5	26.0	53.5	2.2	1.2	17.8
3496	Miscellaneous fabricated wire products ---	E1	20	6	0.5	3.1	0.4	0.7	2.0	8.6	11.6	19.6	0.4	0.3	3.0
3498	Fabricated pipe and fittings ---	-	9	5	0.3	3.3	0.2	0.4	2.5	11.0	15.9	26.8	0.7	(NA)	(NA)
3499	Fabricated metal products, n.e.c. ---	E1	57	13	0.9	7.5	0.6	1.3	4.9	19.0	19.4	37.5	1.6	0.4	5.6
35	Machinery, except electrical ---	-	785	206	33.8	454.7	22.3	43.3	251.4	1 154.2	883.1	2 016.8	64.6	22.1	442.6
3523	Farm machinery and equipment ---	E1	14	4	0.4	5.1	0.3	0.6	3.1	7.6	13.2	20.1	1.2	(NA)	(NA)
353	Construction and related machinery ---	-	95	52	10.4	147.0	7.4	15.2	97.0	430.3	252.0	669.7	25.4	5.6	94.5
3531	Construction machinery ---	E3	20	9	0.6	8.4	0.4	0.8	4.6	14.7	19.5	35.3	1.3	0.5	8.9
3533	Oil field machinery ---	-	30	20	7.5	110.9	5.3	11.2	75.6	360.4	182.6	528.8	21.5	3.5	63.9
3535	Conveyors and conveying equipment ---	-	19	10	1.3	14.3	0.9	1.8	8.6	27.3	25.1	54.0	1.3	1.0	12.1
3537	Industrial trucks and tractors ---	E1	13	6	0.5	6.2	0.3	0.6	3.4	12.9	11.2	24.0	0.9	(NA)	(NA)
354	Metalworking machinery ---	E1	92	17	2.0	23.2	1.4	2.8	14.7	56.0	29.1	84.2	3.7	1.2	25.2
3544	Special dies, tools, jigs, and fixtures ---	E3	68	9	0.7	9.4	0.5	1.1	6.8	14.3	8.1	22.1	1.4	0.3	5.4
355	Special industry machinery ---	-	57	20	2.6	37.9	1.7	3.4	18.7	89.5	63.5	153.7	6.8	2.0	43.0
3551	Food products machinery ---	-	15	3	0.3	4.5	0.2	0.4	2.2	8.7	8.5	17.2	0.3	0.3	3.7
3559	Special industry machinery, n.e.c. ---	-	24	10	1.3	19.2	0.9	1.7	8.9	40.3	25.1	65.7	2.5	0.9	15.8
356	General industrial machinery ---	-	65	17	2.6	33.7	2.0	3.8	22.5	81.3	62.9	142.5	3.8	1.6	34.0
3569	General industrial machinery, n.e.c. ---	-	24	5	0.7	7.7	0.5	0.9	4.9	16.0	15.6	31.1	0.8	(NA)	(NA)
357	Office and computing machines ---	-	26	11	5.0	84.9	1.5	2.7	18.7	189.8	106.1	295.4	12.4	(NA)	(NA)
3573	Electronic computing equipment ---	-	21	8	2.8	44.8	0.7	1.4	8.3	77.4	44.6	121.6	(D)	(NA)	(NA)
358	Refrigeration and service machinery ---	-	79	37	6.9	75.6	4.9	8.8	44.7	207.1	293.6	498.6	5.9	5.7	137.1
359	Miscellaneous machinery, except electrical ---	E2	353	46	3.7	45.3	2.9	5.8	30.8	83.2	46.6	127.3	5.4	3.2	49.0
36	Electric and electronic equipment ---	-	306	101	40.5	562.4	24.6	49.6	276.8	1 249.2	823.0	2 044.0	112.5	37.0	619.4
361	Electric distributing equipment ---	E1	13	6	0.6	5.7	0.4	0.8	3.6	13.4	21.1	34.5	0.1	0.5	8.0
362	Electrical industrial apparatus ---	E1	31	7	0.6	7.8	0.5	0.9	5.0	14.0	8.8	20.8	0.6	(NA)	(NA)
364	Electric lighting and wiring equipment ---	-	22	9	0.8	8.0	0.6	1.2	4.9	24.8	14.8	39.6	0.5	1.3	24.0
366	Communication equipment ---	-	87	35	21.9	336.4	11.3	22.7	132.1	804.6	516.0	1 307.0	70.5	(NA)	(NA)
367	Electronic components and accessories ---	-	96	27	14.0	174.3	9.7	19.8	108.8	318.9	162.1	471.6	36.7	16.0	276.0
369	Miscellaneous electrical equipment and supplies ---	-	26	11	1.7	21.0	1.4	2.8	16.4	52.0	63.5	112.9	3.4	1.6	28.9
3694	Engine electrical equipment ---	E1	7	4	0.3	2.7	0.3	0.5	2.0	5.5	4.7	10.1	0.4	(NA)	(NA)
37	Transportation equipment ---	-	220	70	37.5	666.6	20.9	43.3	341.4	1 493.1	1 649.5	3 041.4	39.1	42.9	939.2
371	Motor vehicles and equipment ---	-	99	36	8.0	138.1	6.5	14.8	109.2	332.5	1 052.5	*1 382.4	(D)	7.0	224.6
3713	Truck and bus bodies ---	-	11	5	0.5	5.1	0.4	0.8	3.5	11.8	8.1	20.9	0.6	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Dallas-Fort Worth SMSA—Con.														
37	Transportation equipment—Con.														
372	Aircraft and parts -----	-	41	15	27.2	504.8	12.5	25.0	214.9	1 105.1	520.0	1 529.4	(D)	(NA)	(NA)
3728	Aircraft equipment, n.e.c. -----	E1	21	7	0.9	13.5	0.6	1.0	8.9	25.3	14.3	39.1	(D)	(NA)	(NA)
379	Miscellaneous transportation equipment -	-	44	13	1.2	10.5	0.9	1.6	7.1	23.6	40.3	63.9	(D)	1.6	19.0
3792	Travel trailers and campers -----	-	27	7	0.6	5.6	0.5	0.9	3.7	13.2	23.5	36.5	(D)	1.1	13.8
3799	Transportation equipment, n.e.c. -----	E1	17	6	0.6	5.0	0.4	0.8	3.4	10.4	16.8	27.4	(D)	0.5	5.2
38	Instruments and related products -----	E1	115	33	3.9	42.5	2.7	5.3	22.3	93.4	63.3	153.0	6.7	2.4	36.8
39	Miscellaneous manufacturing industries ---	E1	249	40	4.4	43.9	3.2	5.8	25.3	99.8	79.1	177.8	3.4	3.3	54.3
391	Jewelry, silverware, and plated ware -----	-	26	2	0.3	3.3	0.2	0.5	2.1	11.8	9.9	21.3	(D)	0.3	7.2
394	Toys and sporting goods --	-	40	7	1.3	12.6	1.0	1.7	7.6	34.6	29.2	62.9	1.3	0.6	11.6
3949	Sporting and athletic goods, n.e.c. -----	-	31	6	1.2	11.8	1.0	1.6	7.2	32.1	26.9	58.2	1.1	0.6	10.5
395	Pens, pencils, office and art supplies -----	-	21	4	0.4	2.9	0.3	0.5	1.6	5.2	7.3	12.4	0.2	(NA)	(NA)
399	Miscellaneous manufactures -----	E2	147	25	2.2	23.0	1.5	2.7	12.9	44.1	29.0	73.2	1.6	2.0	30.7
3993	Signs and advertising displays -----	E1	75	16	1.2	14.4	0.9	1.6	8.0	26.0	16.4	42.6	(D)	1.4	22.8
3999	Manufacturing industries, n.e.c. -----	E2	61	8	0.8	8.1	0.6	1.0	4.6	17.0	11.2	28.2	(D)	0.5	6.6
--	Administrative and auxiliary --	-	202	104	16.0	289.7	-	-	-	-	-	-	-	(NA)	(NA)
	El Paso SMSA -----	-	407	138	29.1	251.5	23.2	42.6	169.7	771.7	1 543.1	2 313.9	65.6	26.0	345.7
20	Food and kindred products --	-	70	23	3.3	36.0	2.4	5.1	23.2	91.1	225.4	315.3	14.2	2.3	37.7
201	Meat products -----	-	9	4	0.8	12.9	0.7	1.4	10.0	26.6	125.8	152.2	1.3	(NA)	(NA)
202	Dairy products -----	-	9	3	0.4	3.3	0.1	0.3	0.8	13.3	29.0	42.2	(D)	0.4	4.2
205	Bakery products -----	E1	11	4	0.3	3.7	0.2	0.3	1.4	7.4	7.2	14.6	0.2	0.4	5.0
2051	Bread, cake, and related products -----	E1	11	4	0.3	3.7	0.2	0.3	1.4	7.4	7.2	14.6	0.2	0.4	5.0
208	Beverages -----	-	8	4	0.3	3.0	0.1	0.2	0.8	8.3	8.6	16.6	(D)	0.4	5.0
2086	Bottled and canned soft drinks -----	-	8	4	0.3	3.0	0.1	0.2	0.8	8.3	8.6	16.6	(D)	(NA)	(NA)
23	Apparel and other textile products -----	-	61	35	14.6	88.8	12.9	22.3	69.7	176.7	170.6	351.6	1.9	15.0	121.8
232	Men's and boys' furnishings -----	-	27	22	12.6	77.2	11.1	19.1	60.9	157.6	156.3	319.1	1.6	14.0	114.8
233	Women's and misses' outerwear -----	E1	19	10	0.8	4.9	0.6	1.2	3.6	9.5	6.1	15.4	0.2	0.3	2.0
2339	Women's and misses' outerwear, n.e.c. -----	E1	3	2	0.3	1.6	0.2	0.4	1.2	4.5	0.8	5.2	(D)	(NA)	(NA)
24	Lumber and wood products --	-	21	6	0.6	4.8	0.6	1.0	3.8	10.5	29.2	39.8	0.5	0.6	6.2
243	Millwork, plywood, and structural members -----	-	16	6	0.6	4.7	0.5	1.0	3.7	10.3	29.0	39.3	(D)	0.5	3.8
2431	Millwork -----	-	12	5	0.5	4.1	0.5	0.9	3.3	9.2	27.9	37.2	0.4	(NA)	(NA)
25	Furniture and fixtures -----	-	10	4	0.4	2.5	0.3	0.6	2.0	4.9	4.3	9.1	(D)	0.3	4.9
27	Printing and publishing -----	-	62	9	1.1	10.6	0.7	1.3	5.6	33.7	10.6	44.8	0.8	0.9	15.4
2711	Newspapers -----	-	8	4	0.6	5.8	0.3	0.5	2.2	26.3	5.6	31.9	0.3	(NA)	(NA)
31	Leather and leather products -----	-	8	6	1.4	10.1	1.2	2.4	8.2	25.5	24.6	47.6	(D)	1.0	13.4
32	Stone, clay, and glass products -----	E1	25	10	0.8	8.9	0.6	1.2	6.2	26.3	24.4	51.0	4.1	0.5	11.0
327	Concrete, gypsum, and plaster products -----	E2	17	7	0.5	5.4	0.4	0.8	3.5	16.2	17.5	33.5	(D)	(NA)	(NA)
34	Fabricated metal products ---	E1	30	11	0.8	8.5	0.7	1.3	5.5	14.3	21.2	34.7	0.5	0.7	9.7
344	Fabricated structural metal products -----	E1	21	7	0.7	7.3	0.6	1.1	4.7	11.9	17.5	28.7	0.5	0.6	8.5
3441	Fabricated structural metal -----	E1	4	4	0.4	4.3	0.3	0.5	2.3	6.1	12.8	18.5	0.2	0.4	3.9
3444	Sheet metal work -----	-	5	3	0.3	2.2	0.2	0.5	1.9	4.2	3.2	7.0	(D)	(NA)	(NA)
35	Machinery, except electrical -	-	24	6	0.5	4.4	0.3	0.4	2.5	10.5	9.2	19.7	1.6	(NA)	(NA)
39	Miscellaneous manufacturing industries ---	E3	26	3	0.3	2.0	0.2	0.4	1.2	4.7	7.4	12.2	0.1	(NA)	(NA)
--	Administrative and auxiliary --	-	9	6	1.0	17.3	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Galveston-Texas City SMSA -	-	130	44	11.3	206.1	8.0	16.5	142.2	1 480.7	4 306.3	5 677.6	125.2	10.9	687.5
27	Printing and publishing -----	-	20	4	0.3	3.4	0.1	0.3	1.8	6.6	5.2	11.8	1.4	0.4	5.6
29	Petroleum and coal products -----	-	7	4	2.6	54.0	1.8	3.8	36.6	370.4	3 061.1	3 414.7	(D)	2.3	183.3
37	Transportation equipment ---	-	15	6	1.3	19.4	1.1	2.4	15.7	33.7	16.2	49.9	1.5	(NA)	(NA)
3731	Ship building and repairing -----	-	7	4	1.2	18.4	1.0	2.2	15.0	31.5	13.6	45.1	(D)	(NA)	(NA)
	Houston SMSA -----	-	4 081	1 342	210.1	3 362.7	126.5	257.4	1 718.7	9 844.4	18 247.0	27 888.0	2 451.5	162.7	4 179.4
20	Food and kindred products --	-	157	66	12.0	170.2	7.7	15.9	99.6	605.8	1 559.4	2 147.1	45.9	12.3	402.0
201	Meat products -----	-	28	12	1.3	16.3	1.0	1.9	11.2	26.3	152.5	180.6	(D)	1.6	17.1
2013	Sausages and other prepared meats -----	-	12	7	0.6	8.6	0.4	0.8	5.4	15.7	63.4	78.9	0.7	(NA)	(NA)
202	Dairy products -----	-	7	6	0.9	10.2	0.4	0.7	3.5	30.6	71.1	101.7	(D)	1.2	18.9
204	Grain mill products -----	-	18	8	1.7	26.7	1.2	2.6	14.1	134.5	338.8	471.2	(D)	1.5	77.2
2044	Rice milling -----	-	7	5	1.5	24.4	1.1	2.2	12.7	129.2	328.2	455.1	(D)	1.1	89.8
205	Bakery products -----	-	29	10	2.7	37.4	1.8	3.7	22.9	100.0	62.3	162.6	(D)	2.8	57.4
208	Beverages -----	-	14	10	2.4	34.3	1.0	2.1	14.6	129.0	187.5	316.1	(D)	2.1	63.3
209	Miscellaneous foods and kindred products -----	-	43	12	2.1	31.1	1.5	3.3	23.0	131.4	610.9	738.6	(D)	2.2	134.9
22	Textile mill products -----	E1	18	3	0.3	2.7	0.3	0.5	2.0	3.1	3.8	6.9	0.3	0.3	3.3
23	Apparel and other textile products -----	E1	79	10	1.2	8.9	1.1	2.1	6.2	14.2	19.3	33.4	0.3	1.5	12.3
239	Miscellaneous fabricated textile products -----	E2	55	5	0.6	4.3	0.5	1.0	3.1	7.5	11.0	18.5	(D)	0.7	6.8
2391	Curtains and draperies --	E1	22	4	0.3	2.4	0.3	0.6	1.8	4.0	4.8	8.7	(D)	0.3	1.7
24	Lumber and wood products --	E1	147	41	3.2	34.4	2.5	5.1	20.7	75.3	116.9	184.9	4.4	2.8	34.1
242	Sawmills and planing mills	E2	24	9	0.6	4.5	0.5	1.1	3.4	10.1	14.3	24.0	1.4	0.6	8.7
243	Millwork, plywood, and structural members -----	E2	40	14	0.9	9.2	0.6	1.2	5.0	13.3	29.8	42.7	0.8	0.9	8.2
2431	Millwork -----	E2	19	7	0.5	5.9	0.3	0.6	2.7	7.8	23.4	30.9	0.4	0.6	5.6
244	Wood containers -----	-	12	4	0.4	4.6	0.3	0.6	2.7	7.2	5.4	12.7	0.2	0.4	3.8
249	Miscellaneous wood products -----	-	31	7	0.5	5.1	0.4	0.9	3.5	8.2	23.8	32.1	1.1	0.5	6.2
2499	Wood products, n.e.c. ---	E1	28	4	0.3	2.9	0.3	0.5	2.0	6.5	9.7	16.2	(D)	0.3	3.0
25	Furniture and fixtures -----	E2	85	31	1.9	19.9	1.5	2.8	12.9	34.0	41.6	75.4	1.3	2.2	29.5
251	Household furniture -----	E3	49	19	1.0	7.9	0.8	1.5	5.6	15.7	18.3	33.9	0.5	1.3	14.2
254	Partitions and fixtures -----	E1	23	9	0.8	10.6	0.6	1.0	6.3	16.3	20.6	36.9	0.7	0.6	9.3
2643	Bags, except textile bags -----	-	6	3	0.5	5.3	0.4	0.9	4.2	10.9	17.3	28.1	1.5	0.7	7.7
265	Paperboard containers and boxes -----	-	19	13	1.1	14.4	0.8	1.8	9.5	25.8	54.4	80.0	2.6	1.2	19.0
2653	Corrugated and solid fiber boxes -----	-	13	10	1.0	12.1	0.7	1.5	7.8	21.1	45.6	66.6	2.4	1.0	15.4
27	Printing and publishing -----	E1	532	76	11.4	138.7	5.5	10.5	67.1	269.5	155.6	424.6	10.9	8.2	137.6
2711	Newspapers -----	-	59	11	5.3	59.5	1.7	3.1	24.2	126.4	62.7	189.0	4.9	3.9	70.3
2721	Periodicals -----	-	30	5	1.0	14.8	(Z)	0.2	0.4	26.7	23.0	49.7	0.3	0.3	5.6
275	Commercial printing -----	E3	337	34	3.3	41.6	2.5	4.7	28.4	74.6	51.3	125.6	4.1	2.9	43.3
2761	Manifold business forms -----	-	8	5	0.4	4.5	0.2	0.5	2.6	9.7	8.1	17.6	0.4	0.3	3.7
278	Blankbooks and bookbinding -----	E2	17	9	0.6	7.0	0.5	1.0	4.8	12.9	4.8	17.6	0.5	0.5	6.2
2782	Blankbooks and looseleaf binders -----	-	7	6	0.4	5.1	0.4	0.7	3.3	9.8	3.8	13.6	(D)	(NA)	(NA)
279	Printing trade services -----	E1	50	8	0.5	7.1	0.4	0.7	5.0	11.7	2.4	14.1	0.6	0.3	5.8
2791	Typesetting -----	E1	43	7	0.3	4.4	0.3	0.5	3.1	7.3	1.1	8.5	0.3	(NA)	(NA)
28	Chemicals and allied products -----	-	256	122	27.8	544.3	16.3	32.8	286.9	3 645.5	4 703.2	8 271.1	1 653.9	22.4	1 361.5
281	Industrial inorganic chemicals -----	-	33	19	2.2	40.3	1.5	3.0	25.4	234.1	237.4	475.7	113.2	1.7	88.2
2819	Industrial inorganic chemicals, n.e.c. -----	-	19	11	0.8	13.1	0.5	1.0	8.1	48.5	52.8	98.1	21.3	(NA)	(NA)
282	Plastics materials and synthetics -----	-	20	17	4.5	89.6	2.8	5.8	51.0	583.0	928.5	1 468.6	252.2	3.5	219.8
284	Soaps, cleaners, and toilet goods -----	E1	34	3	0.3	4.9	0.2	0.4	2.8	32.0	49.3	81.0	(D)	0.4	18.1
2851	Paints and allied products -----	E1	30	16	1.2	17.3	0.5	1.1	6.0	57.1	79.8	136.1	(D)	1.3	40.4
286	Industrial organic chemicals -----	-	45	37	14.8	310.7	8.4	16.9	158.7	2 398.9	2 967.7	5 340.8	1 135.7	12.2	884.2
289	Miscellaneous chemical products -----	-	52	16	1.5	22.2	0.9	1.8	11.5	109.4	123.9	232.5	9.1	1.9	48.1
2899	Chemical preparations, n.e.c. -----	-	34	11	1.1	16.3	0.6	1.3	7.9	87.0	84.2	171.1	7.0	1.5	33.4
29	Petroleum and coal products -----	-	36	19	10.5	215.3	6.5	14.2	128.8	1 268.7	7 817.7	9 029.3	271.2	9.1	471.5
2911	Petroleum refining -----	-	14	12	10.0	208.9	6.1	13.4	124.6	1 250.2	7 786.5	8 979.3	269.0	8.7	458.1
295	Paving and roofing materials -----	-	8	5	0.4	4.1	0.3	0.6	3.2	12.9	24.8	37.7	(D)	0.4	10.4
30	Rubber and miscellaneous plastics products -----	E1	164	56	5.3	60.1	4.1	8.3	39.4	128.7	115.3	239.0	11.0	3.4	51.6
3069	Fabricated rubber products, n.e.c. -----	-	18	9	0.9	11.7	0.7	1.3	7.6	22.0	12.1	34.0	(D)	0.6	6.1

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Houston SMSA—Con.														
32	Stone, clay, and glass products -----	-	192	80	6.7	88.1	5.4	11.0	64.6	229.3	315.7	547.5	21.6	7.1	148.2
3231	Products of purchased glass -----	-	11	3	0.3	3.0	0.2	0.4	2.1	6.7	6.6	13.1	(D)	(NA)	(NA)
3241	Cement, hydraulic -----	-	4	4	0.5	9.7	0.4	0.8	7.6	38.3	47.5	86.2	(D)	0.6	29.6
3272	Concrete products, n.e.c. -----	E1	44	17	0.9	10.6	0.8	1.6	7.7	31.7	24.2	55.5	1.6	1.2	17.8
3273	Ready-mixed concrete -----	-	44	25	2.3	32.0	1.9	4.0	24.0	81.2	157.6	238.8	10.8	1.7	31.9
329	Miscellaneous nonmetallic mineral products -----	-	51	21	1.7	20.9	1.3	2.6	14.1	43.4	56.8	103.1	2.0	2.4	44.2
3293	Gaskets, packing, and sealing devices -----	-	19	8	0.8	10.6	0.7	1.3	6.7	22.8	21.8	44.3	0.7	1.4	19.5
33	Primary metal industries -----	-	93	43	10.5	192.3	7.7	15.6	128.5	362.5	624.7	960.9	147.7	10.1	206.6
3315	Steel wire and related products -----	-	12	7	0.6	6.5	0.5	1.0	4.3	9.5	33.3	42.2	2.2	(NA)	(NA)
34	Fabricated metal products -----	-	655	268	30.9	432.2	23.0	47.0	288.6	976.5	1 054.9	2 015.7	79.7	22.6	410.1
341	Metal cans and shipping containers -----	E1	13	10	1.8	31.9	1.5	3.2	24.9	65.8	175.8	240.4	7.0	1.8	50.3
3411	Metal cans -----	E1	5	5	1.3	24.2	1.0	2.2	19.4	43.2	144.9	187.4	5.1	1.4	42.5
3412	Metal barrels, drums, and pails -----	-	8	5	0.5	7.7	0.4	1.0	5.5	22.6	30.9	53.0	1.9	0.4	7.8
344	Fabricated structural metal products -----	E1	290	131	13.3	175.5	9.7	19.4	110.2	386.6	432.8	826.7	19.8	10.2	176.6
3441	Fabricated structural metal -----	-	68	37	3.4	44.1	2.6	5.5	29.6	78.6	95.6	174.8	5.5	3.0	40.9
3442	Metal doors, sash, and trim -----	-	17	6	0.8	7.6	0.6	1.2	4.3	16.5	20.6	36.8	0.8	0.9	8.5
3443	Fabricated plate work (boiler shops) -----	-	66	42	5.1	73.2	3.7	7.4	47.6	178.3	146.4	331.1	9.1	3.6	70.1
3444	Sheet metal work -----	E3	64	18	1.2	13.9	0.8	1.4	7.9	27.0	36.1	62.6	1.7	(NA)	(NA)
3446	Architectural metal work -----	-	38	6	0.5	5.3	0.3	0.7	3.3	13.6	13.7	26.8	0.4	(NA)	(NA)
3448	Prefabricated metal buildings -----	E1	23	13	2.0	25.7	1.4	2.6	14.7	61.5	88.6	150.4	2.1	(NA)	(NA)
3449	Miscellaneous metal work -----	-	14	9	0.4	5.6	0.2	0.5	2.7	11.1	31.8	44.2	0.3	0.6	13.2
345	Screw machine products, bolts, etc. -----	E2	22	10	1.0	12.4	0.8	1.6	8.4	29.2	23.5	53.1	1.5	0.7	11.6
3452	Bolts, nuts, rivets, and washers -----	E2	16	8	1.0	11.4	0.7	1.4	7.6	26.3	21.1	47.9	1.4	0.6	10.4
346	Metal forgings and stampings -----	-	35	14	1.9	28.1	1.4	2.8	18.5	94.0	77.8	166.1	(D)	0.6	12.5
3462	Iron and steel forgings -----	-	15	8	1.4	22.0	1.0	2.1	14.4	79.7	67.7	142.0	(D)	0.4	9.9
3469	Metal stampings, n.e.c. -----	-	20	6	0.5	6.1	0.4	0.8	4.1	14.3	10.1	24.2	0.3	(NA)	(NA)
347	Metal services, n.e.c. -----	E1	93	28	1.8	21.1	1.5	3.3	15.5	46.0	26.9	72.3	4.2	1.1	17.5
3471	Plating and polishing -----	E3	37	6	0.5	5.0	0.4	0.8	3.7	9.4	3.4	12.8	(D)	0.4	4.8
3479	Metal coating and allied services -----	-	56	22	1.3	16.2	1.1	2.5	11.8	36.6	23.5	59.6	(D)	0.7	12.7
349	Miscellaneous fabricated metal products -----	-	178	72	10.9	161.0	8.0	16.4	109.6	350.4	314.8	649.2	28.7	8.0	138.7
3494	Valves and pipe fittings -----	-	59	33	5.7	82.2	4.1	8.7	55.6	181.7	162.0	333.3	14.5	4.3	65.2
3496	Miscellaneous fabricated wire products -----	E7	21	5	0.4	4.3	0.3	0.7	3.0	11.6	17.0	28.4	0.4	1.0	15.4
3498	Fabricated pipe and fittings -----	-	32	19	3.7	63.6	2.7	5.5	44.0	134.2	117.5	246.7	11.9	1.7	41.9
3499	Fabricated metal products, n.e.c. -----	E3	58	11	0.8	8.2	0.6	1.2	5.3	17.3	15.2	32.0	1.8	0.9	14.5
35	Machinery, except electrical -----	-	899	258	42.0	621.0	27.9	57.6	374.5	1 454.4	1 022.0	2 511.8	142.0	26.8	542.8
352	Farm and garden machinery -----	-	11	2	0.4	4.9	0.2	0.4	1.7	23.1	18.7	41.8	0.6	(NA)	(NA)
353	Construction and related machinery -----	-	162	93	27.8	421.7	18.2	37.7	255.5	1 073.6	676.0	1 786.0	119.5	17.5	381.0
3531	Construction machinery -----	E1	18	8	0.8	10.4	0.6	1.1	6.6	25.3	26.1	50.7	1.1	0.3	3.9
3533	Oil field machinery -----	-	119	72	25.7	394.0	16.8	34.9	238.4	1 007.0	604.8	1 650.2	116.5	16.2	356.9
3536	Hoists, cranes, and monorails -----	E2	10	4	0.5	7.1	0.4	0.8	4.7	15.3	13.1	28.0	0.3	0.4	7.3
354	Metalworking machinery -----	-	50	10	1.1	14.5	0.8	1.5	8.5	25.8	9.0	37.4	0.8	0.8	17.8
3544	Special dies, tools, jigs, and fixtures -----	E2	27	2	0.3	2.7	0.2	0.4	1.9	2.7	1.8	4.5	0.3	(NA)	(NA)
355	Special industry machinery -----	-	35	8	1.2	18.1	0.7	1.4	9.1	36.6	25.6	59.8	4.1	0.5	8.8
356	General industrial machinery -----	E1	94	40	3.0	41.0	1.9	3.8	22.9	76.8	67.4	143.9	3.7	2.3	32.4
3561	Pumps and pumping equipment -----	-	19	13	1.1	16.4	0.7	1.4	9.4	27.5	24.9	52.2	1.0	1.0	14.6
3564	Blowers and fans -----	-	11	7	0.5	6.2	0.3	0.5	3.0	9.1	11.5	21.4	0.6	0.3	3.1
3569	General industrial machinery, n.e.c. -----	E1	33	11	0.6	8.0	0.4	0.8	4.4	17.0	15.9	32.3	1.0	0.3	5.0
358	Refrigeration and service machinery -----	E1	33	8	0.6	7.5	0.5	0.8	4.5	16.3	17.7	33.4	0.8	0.4	6.0
359	Miscellaneous machinery, except electrical -----	E2	491	88	5.9	84.3	4.6	9.5	59.2	150.7	71.9	219.1	9.4	3.3	56.7
36	Electric and electronic equipment -----	-	172	54	11.4	157.7	7.7	15.6	91.6	407.9	303.0	686.9	33.1	8.0	165.6
361	Electric distributing equipment -----	-	22	7	0.9	14.0	0.7	1.4	8.0	31.0	37.9	69.4	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Houston SMSA—Con.														
36	Electric and electronic equipment—Con.														
362	Electrical industrial apparatus -----	E2	27	10	0.7	11.4	0.4	0.8	5.4	21.4	16.6	35.7	(D)	1.3	26.5
366	Communication equipment -----	-	25	11	2.3	32.3	1.5	2.9	15.8	77.0	56.3	125.8	4.3	1.1	15.4
369	Miscellaneous electrical equipment and supplies --	-	28	9	1.0	10.4	0.5	1.0	4.1	36.2	12.4	46.6	2.1	1.1	24.8
37	Transportation equipment ---	E1	105	32	2.9	37.8	2.3	4.5	27.4	70.5	79.6	144.9	3.0	3.5	51.8
371	Motor vehicles and equipment -----	E4	37	10	0.5	6.2	0.4	0.8	4.5	13.1	17.3	30.1	0.9	0.3	4.3
373	Ship and boat building and repairing -----	E1	50	16	1.5	20.0	1.2	2.4	14.9	30.5	19.4	48.7	1.5	1.8	21.2
3731	Ship building and repairing -----	-	20	11	1.2	15.8	1.0	1.8	11.9	22.1	12.6	34.7	1.2	1.5	19.2
3732	Boat building and repairing -----	E2	30	5	0.3	4.2	0.2	0.6	3.0	8.4	6.8	14.0	0.3	(NA)	(NA)
38	Instruments and related products -----	E3	117	37	2.7	33.7	1.8	3.6	17.9	77.7	42.0	117.7	4.4	1.7	38.0
384	Medical instruments and supplies -----	E1	25	6	0.4	4.5	0.2	0.5	2.0	8.5	5.8	14.5	0.5	(NA)	(NA)
3841	Surgical and medical instruments -----	-	9	4	0.3	3.1	0.1	0.3	1.3	4.9	3.3	8.4	0.4	(NA)	(NA)
394	Toys and sporting goods --	E2	30	3	0.3	2.6	0.2	0.5	1.8	5.0	5.2	10.2	0.4	(NA)	(NA)
399	Miscellaneous manufactures -----	E2	91	16	1.0	11.3	0.8	1.5	7.5	23.7	18.1	41.1	1.0	1.0	13.4
3999	Manufacturing industries, n.e.c. -----	E2	35	6	0.4	4.1	0.3	0.6	2.4	12.6	10.6	22.5	0.5	0.4	4.3
	Killeen-Temple SMSA -----	-	116	47	5.8	55.3	4.4	9.1	37.8	159.6	169.3	332.0	(D)	5.1	82.1
23	Apparel and other textile products -----	E1	6	5	0.5	3.2	0.5	0.9	2.7	4.2	4.1	8.2	0.1	0.5	2.5
24	Lumber and wood products --	E1	7	3	0.3	2.7	0.2	0.4	2.0	5.8	10.9	16.7	0.1	0.3	4.4
25	Furniture and fixtures -----	-	8	7	1.3	9.8	1.0	2.0	6.7	18.8	22.5	41.1	1.0	1.3	13.1
27	Printing and publishing -----	-	24	5	0.4	4.6	0.2	0.4	2.2	10.4	8.9	19.2	(D)	0.4	5.6
32	Stone, clay, and glass products -----	-	9	5	0.4	4.4	0.3	0.6	3.1	15.7	12.3	28.0	0.9	0.3	7.9
35	Machinery, except electrical -	E1	11	4	0.3	3.2	0.3	0.5	2.1	4.0	6.0	10.4	0.5	(NA)	(NA)
	Laredo SMSA -----	-	60	17	1.5	11.9	1.1	2.1	7.4	26.8	55.4	85.1	0.9	1.2	10.5
23	Apparel and other textile products -----	-	5	4	0.4	2.6	0.4	0.7	2.1	8.0	6.3	14.4	(Z)	0.4	2.4
	Longview SMSA -----	-	247	96	15.9	206.3	12.0	23.9	139.2	641.2	761.9	1 387.4	52.4	13.9	295.9
20	Food and kindred products --	-	15	8	1.0	16.1	0.6	1.0	9.3	91.7	117.9	209.6	(D)	(NA)	(NA)
23	Apparel and other textile products -----	-	11	7	1.0	6.2	0.9	1.7	5.3	18.4	12.9	29.3	0.2	(NA)	(NA)
24	Lumber and wood products --	-	19	4	0.4	3.6	0.3	0.7	2.7	11.7	10.4	22.2	1.0	(NA)	(NA)
27	Printing and publishing -----	E1	22	3	0.4	3.1	0.3	0.5	2.1	6.9	3.0	9.9	0.5	(NA)	(NA)
2711	Newspapers -----	-	7	3	0.3	2.5	0.2	0.4	1.6	5.5	2.2	7.7	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	17	6	1.0	8.8	0.9	1.7	6.8	18.5	16.2	34.1	1.6	(NA)	(NA)
33	Primary metal industries ----	-	12	5	0.9	11.2	0.7	1.4	8.4	16.8	59.0	75.0	3.0	(NA)	(NA)
34	Fabricated metal products ---	-	34	19	3.3	44.2	2.4	4.9	31.8	86.5	118.8	202.8	3.3	(NA)	(NA)
344	Fabricated structural metal products -----	-	16	10	1.3	16.7	1.0	2.0	12.3	32.5	30.6	60.4	1.6	(NA)	(NA)
3443	Fabricated plate work (boiler shops) -----	-	7	5	0.6	8.3	0.5	0.9	6.2	14.8	14.5	28.6	1.0	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	12	4	0.3	2.9	0.2	0.4	2.1	7.1	10.1	17.3	0.3	(NA)	(NA)
35	Machinery, except electrical -	-	55	19	2.7	36.1	2.0	4.1	25.1	74.6	83.7	152.3	7.1	(NA)	(NA)
353	Construction and related machinery -----	-	8	8	2.0	27.2	1.4	3.0	19.0	55.4	69.3	119.1	(D)	(NA)	(NA)
356	General industrial machinery -----	E2	12	3	0.3	4.3	0.2	0.5	2.8	10.4	8.6	18.8	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E1	24	4	0.3	3.1	0.2	0.4	2.2	5.0	2.8	7.8	0.4	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E1	24	4	0.3	3.1	0.2	0.4	2.2	5.0	2.8	7.8	0.4	(NA)	(NA)
37	Transportation equipment ---	-	11	6	1.5	16.6	1.2	2.3	11.2	33.9	58.7	94.0	3.2	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977										1972			
			E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Lubbock SMSA -----	-		290	68	12.9	137.8	9.3	18.1	76.5	349.1	487.1	813.3	37.5	7.1	114.9
20	Food and kindred products --	-		29	17	2.0	22.1	1.2	2.8	12.2	83.5	189.7	262.5	3.4	2.1	46.5
207	Fats and oils -----	-		3	3	0.5	5.6	0.4	1.1	4.1	37.1	71.5	98.5	(D)	(NA)	(NA)
2074	Cottonseed oil mills -----	-		3	3	0.5	5.6	0.4	1.1	4.1	37.1	71.5	98.5	(D)	(NA)	(NA)
23	Apparel and other textile products -----	-		13	4	0.4	2.3	0.3	0.6	1.7	6.5	7.0	13.4	0.1	0.3	3.1
27	Printing and publishing -----	E1		40	2	0.5	4.8	0.3	0.4	2.4	14.3	6.0	20.3	0.6	0.6	9.9
30	Rubber and miscellaneous plastics products -----	-		4	3	0.3	3.8	0.2	0.5	2.5	7.1	10.0	17.0	(D)	(NA)	(NA)
3079	Miscellaneous plastics products -----	-		4	3	0.3	3.8	0.2	0.5	2.5	7.1	10.0	17.0	(D)	(NA)	(NA)
34	Fabricated metal products ---	E1		36	7	0.6	5.6	0.4	0.8	3.7	13.6	17.7	29.9	1.0	0.5	5.0
344	Fabricated structural metal products -----	E2		20	5	0.3	3.4	0.2	0.5	2.1	7.8	10.4	17.9	0.5	0.4	3.8
35	Machinery, except electrical -	-		66	19	6.4	71.3	4.6	9.0	36.8	164.2	166.0	323.2	(D)	1.5	26.8
356	General industrial machinery -----	-		19	10	0.8	8.3	0.6	1.2	5.5	30.6	25.3	51.9	(D)	0.3	4.0
3561	Pumps and pumping equipment -----	-		12	7	0.5	5.4	0.4	0.8	3.6	24.7	19.5	40.5	(D)	(NA)	(NA)
	McAllen-Pharr-Edinburg SMSA -----	-		169	45	5.5	41.1	4.4	8.6	29.1	115.2	158.4	271.8	9.9	3.1	54.1
20	Food and kindred products --	-		43	15	1.7	11.8	1.2	2.4	7.5	35.7	74.0	109.6	2.2	1.4	24.7
203	Preserved fruits and vegetables -----	-		16	10	1.1	7.2	0.9	1.7	5.6	25.9	47.0	72.9	1.1	0.9	17.7
2033	Canned fruits and vegetables -----	-		8	4	0.6	4.4	0.5	0.9	3.2	18.9	35.0	53.9	(D)	(NA)	(NA)
23	Apparel and other textile products -----	-		10	7	1.5	8.6	1.4	2.8	7.7	21.2	23.3	44.3	(D)	(NA)	(NA)
26	Paper and allied products ---	-		3	3	0.3	3.1	0.2	0.4	1.9	7.0	13.6	20.9	(D)	(NA)	(NA)
265	Paperboard containers and boxes -----	-		3	3	0.3	3.1	0.2	0.4	1.9	7.0	13.6	20.8	(D)	(NA)	(NA)
2653	Corrugated and solid fiber boxes -----	-		3	3	0.3	3.1	0.2	0.4	1.9	7.0	13.6	20.9	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-		10	5	0.6	4.4	0.5	1.0	3.4	9.5	9.0	18.5	0.6	(NA)	(NA)
35	Machinery, except electrical -	E1		24	3	0.5	4.4	0.4	0.9	3.4	10.2	8.2	17.4	1.4	(NA)	(NA)
	Midland SMSA -----	-		94	24	2.0	23.4	1.3	2.4	11.1	53.8	47.3	99.9	7.6	1.4	23.0
27	Printing and publishing -----	-		18	5	0.3	2.8	0.2	0.3	1.5	7.0	2.2	9.2	0.9	(NA)	(NA)
35	Machinery, except electrical -	-		17	5	0.5	7.0	0.4	0.7	4.1	22.0	16.9	38.0	4.2	(NA)	(NA)
-	Administrative and auxiliary --	-		5	3	0.3	4.6	-	-	-	-	-	-	-	(NA)	(NA)
	Odessa SMSA -----	-		220	67	5.9	86.7	4.0	8.4	51.4	232.9	508.0	734.8	(D)	4.0	91.8
28	Chemicals and allied products -----	-		16	8	1.0	15.6	0.7	1.4	10.7	48.0	189.7	230.1	3.1	0.9	36.8
35	Machinery, except electrical -	E1		103	29	2.5	34.9	1.9	4.3	23.8	70.2	65.4	133.3	7.7	1.0	19.4
353	Construction and related machinery -----	-		28	13	1.3	18.3	0.9	2.1	11.6	38.7	42.1	78.1	4.6	0.3	5.8
356	General industrial machinery -----	-		8	5	0.3	4.5	0.3	0.6	3.4	7.0	11.5	18.4	0.9	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E1		58	9	0.8	10.3	0.6	1.3	7.7	21.0	9.6	31.3	2.0	0.5	9.7
3599	Machinery, except electrical, n.e.c. -----	E1		55	6	0.7	9.4	0.5	1.3	7.0	19.0	8.6	28.3	(D)	(NA)	(NA)
	San Angelo SMSA -----	-		100	27	4.8	42.6	3.4	6.1	25.0	126.3	158.9	291.3	6.2	3.5	78.1
20	Food and kindred products --	-		22	8	0.8	8.1	0.5	1.1	4.8	24.9	70.0	94.7	3.1	0.7	26.5
27	Printing and publishing -----	-		16	2	0.4	3.1	0.2	0.4	1.4	8.6	2.9	11.5	(D)	0.4	5.4
	San Antonio SMSA -----	-		944	286	40.1	399.2	28.7	55.7	231.8	905.3	1 130.8	2 017.7	92.5	34.9	492.0
20	Food and kindred products --	-		126	58	8.4	82.9	5.5	10.8	47.4	189.0	460.0	650.8	14.7	8.5	160.6
201	Meat products -----	-		22	11	2.2	21.7	1.8	3.7	16.2	35.0	195.8	232.5	3.3	2.3	34.2
202	Dairy products -----	-		6	4	0.6	6.2	0.2	0.5	2.0	13.0	43.2	56.1	0.8	0.7	12.1
203	Preserved fruits and vegetables -----	-		10	3	0.5	4.1	0.4	0.8	2.7	13.3	16.0	29.3	(D)	0.8	18.4
204	Grain mill products -----	-		8	6	0.4	3.8	0.3	0.7	2.0	11.4	35.9	48.1	(D)	0.4	7.3
205	Bakery products -----	-		18	10	1.5	14.8	0.9	1.7	7.9	37.5	30.1	67.5	1.7	1.2	18.9
208	Beverages -----	-		16	10	1.9	21.9	0.9	1.8	9.5	44.5	101.7	146.1	5.7	1.9	50.2
209	Miscellaneous foods and kindred products -----	E1		37	12	1.0	8.6	0.7	1.3	5.8	28.2	25.7	53.8	1.3	0.9	14.7
2099	Food preparations, n.e.c. -----	E1		29	12	1.0	8.3	0.7	1.3	5.6	27.5	25.5	52.9	(D)	0.8	14.3

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972		
			E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	San Antonio SMSA—Con.															
23	Apparel and other textile products -----	-	52	25	5.2	30.5	4.7	8.6	24.0	71.5	60.7	130.9	(D)	4.8	34.8	
2311	Men's and boys' suits and coats -----	-	6	5	1.5	9.9	1.3	2.4	7.0	21.9	6.1	27.6	(D)	(NA)	(NA)	
233	Women's and misses' outerwear -----	-	12	6	0.7	4.1	0.7	1.3	3.4	19.9	1.6	21.0	(D)	0.4	3.1	
239	Miscellaneous fabricated textile products -----	-	19	6	1.2	7.7	1.1	2.1	6.2	12.8	36.4	48.8	0.3	0.8	8.1	
2431	Millwork -----	E1	12	4	0.3	2.4	0.2	0.5	1.6	5.0	8.3	13.3	0.1	0.4	2.7	
27	Printing and publishing -----	E1	168	24	2.9	30.2	1.8	3.2	17.3	58.3	36.4	94.5	2.0	3.1	38.6	
275	Commercial printing -----	E4	101	13	0.9	8.9	0.7	1.2	6.4	15.4	12.9	28.2	1.0	0.9	10.0	
2751	Commercial printing, letterpress -----	E4	56	4	0.3	2.6	0.2	0.4	1.8	4.9	4.1	9.0	(D)	(NA)	(NA)	
2752	Commercial printing, lithographic -----	E4	39	8	0.5	6.0	0.5	0.8	4.4	10.0	8.6	18.5	0.7	0.6	6.3	
283	Drugs -----	E1	8	3	0.4	5.1	0.2	0.4	1.6	16.6	7.7	24.9	0.4	(NA)	(NA)	
29	Petroleum and coal products -----	-	14	4	0.3	4.0	0.2	0.4	2.5	19.7	58.4	77.8	5.4	(NA)	(NA)	
32	Stone, clay, and glass products -----	-	67	24	2.7	30.0	2.1	4.4	19.9	65.5	96.0	163.1	15.6	2.9	56.4	
3241	Cement, hydraulic -----	-	3	3	0.7	9.4	0.5	1.0	6.1	25.5	37.3	64.6	9.4	0.6	24.7	
325	Structural clay products -----	-	5	3	0.3	2.2	0.2	0.5	1.7	5.8	2.2	7.9	(D)	0.4	3.1	
327	Concrete, gypsum, and plaster products -----	-	38	18	1.6	17.3	1.3	2.8	11.4	31.7	55.0	86.6	5.3	1.7	26.8	
3272	Concrete products, n.e.c. -----	E1	16	6	0.5	4.9	0.4	0.9	3.6	6.8	8.9	15.7	(D)	0.7	8.0	
3273	Ready-mixed concrete -----	-	16	8	0.9	10.7	0.7	1.5	6.7	19.0	40.8	59.7	3.7	0.7	14.5	
34	Fabricated metal products -----	-	108	30	4.1	45.3	3.1	6.3	32.5	97.9	97.3	193.3	5.6	3.2	46.9	
344	Fabricated structural metal products -----	-	71	22	2.7	27.0	1.9	3.8	16.9	59.4	69.0	127.8	3.8	1.6	13.1	
3441	Fabricated structural metal -----	E1	13	7	1.0	10.9	0.7	1.5	7.1	27.6	22.7	50.1	1.0	0.7	5.6	
3442	Metal doors, sash, and trim -----	-	11	5	0.3	2.8	0.2	0.5	1.9	4.4	6.2	10.4	(D)	(NA)	(NA)	
3444	Sheet metal work -----	E1	19	6	0.6	5.2	0.5	1.0	3.6	9.1	11.4	20.7	0.6	(NA)	(NA)	
35	Machinery, except electrical -----	-	78	21	4.9	59.7	2.5	4.9	22.5	193.6	115.0	295.7	(D)	2.6	40.0	
358	Refrigeration and service machinery -----	-	14	7	1.5	14.9	1.0	1.8	8.0	39.1	48.0	81.2	(D)	(NA)	(NA)	
359	Miscellaneous machinery, except electrical -----	E5	30	4	0.3	3.0	0.2	0.3	1.9	5.8	2.6	8.3	0.3	(NA)	(NA)	
3599	Machinery, except electrical, n.e.c. -----	E5	30	4	0.3	3.0	0.2	0.3	1.9	5.8	2.6	8.3	0.3	(NA)	(NA)	
37	Transportation equipment -----	-	36	7	1.4	16.2	1.2	2.3	9.6	36.5	39.6	71.8	0.5	1.7	22.9	
371	Motor vehicles and equipment -----	E3	16	2	0.3	2.7	0.2	0.4	1.9	4.6	5.9	9.8	0.1	(NA)	(NA)	
399	Miscellaneous manufactures -----	E1	39	13	0.6	5.3	0.4	0.8	2.9	9.3	8.4	17.6	0.4	0.6	5.2	
3993	Signs and advertising displays -----	-	18	6	0.3	2.3	0.2	0.3	1.4	4.0	2.2	6.0	0.2	(NA)	(NA)	
3999	Manufacturing industries, n.e.c. -----	E1	15	5	0.3	2.6	0.2	0.4	1.2	4.6	5.1	9.7	(D)	0.3	2.5	
--	Administrative and auxiliary -----	-	20	8	1.0	17.7	-	-	-	-	-	-	-	(NA)	(NA)	
	Sherman-Denison SMSA -----	-	123	57	10.5	120.1	7.8	15.5	76.9	307.0	500.3	792.7	33.2	8.3	179.2	
20	Food and kindred products -----	-	20	11	2.0	24.1	1.6	3.2	17.6	93.3	309.1	399.4	(D)	1.3	36.5	
207	Fats and oils -----	-	7	5	0.9	10.6	0.8	1.6	8.7	49.3	191.5	239.3	(D)	0.7	18.2	
233	Women's and misses' outerwear -----	-	9	7	0.5	2.9	0.5	0.9	2.7	4.3	1.4	5.6	0.1	(NA)	(NA)	
33	Primary metal industries -----	-	7	5	0.7	7.1	0.6	1.2	5.3	18.0	25.9	43.7	1.1	(NA)	(NA)	
34	Fabricated metal products -----	-	14	6	0.4	4.1	0.2	0.4	2.1	13.0	10.4	17.6	(D)	(NA)	(NA)	
35	Machinery, except electrical -----	-	15	5	0.6	7.3	0.4	0.9	4.0	18.7	23.4	40.2	(D)	0.8	10.3	
	Texarkana, Tex.-Texarkana, Ark., SMSA -----	-	135	40	7.7	87.5	6.0	10.6	55.6	228.9	246.6	481.7	16.2	9.0	106.1	
20	Food and kindred products -----	E3	13	6	0.6	6.1	0.3	0.7	2.7	14.9	31.3	46.0	1.4	0.6	11.7	
24	Lumber and wood products -----	-	49	9	0.8	6.3	0.7	1.3	5.0	16.4	23.3	39.0	0.7	1.3	8.6	
32	Stone, clay, and glass products -----	-	14	4	0.7	8.6	0.4	0.9	5.3	26.8	17.7	44.6	(D)	0.4	13.3	
34	Fabricated metal products -----	-	14	3	2.0	22.7	1.5	2.0	9.8	44.2	20.9	70.8	(D)	(NA)	(NA)	

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972		
			E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Tyler SMSA -----	-	171	51	12.1	144.6	9.6	18.4	104.1	379.7	484.5	857.1	18.2	12.0	226.7	
20	Food and kindred products --	-	17	9	0.7	8.3	0.5	0.7	3.5	23.7	38.6	62.2	1.2	0.6	11.7	
25	Furniture and fixtures-----	-	7	3	0.4	3.0	0.3	0.6	2.1	9.3	4.6	13.4	(D)	0.4	3.9	
27	Printing and publishing -----	-	18	2	0.3	2.4	0.1	0.2	1.0	5.2	2.2	7.4	(D)	(NA)	(NA)	
32	Stone, clay, and glass products-----	-	14	4	0.3	2.7	0.2	0.5	2.0	8.3	6.3	14.7	0.2	(NA)	(NA)	
34	Fabricated metal products ---	E2	21	6	0.5	6.1	0.4	0.8	4.2	9.0	17.5	26.3	0.4	0.6	8.7	
344	Fabricated structural metal products-----	E3	12	4	0.4	4.7	0.3	0.6	3.4	6.4	14.1	20.4	0.2	(NA)	(NA)	
3443	Fabricated plate work (boiler shops) -----	E2	3	3	0.3	3.8	0.2	0.5	2.9	5.1	8.8	13.9	(D)	(NA)	(NA)	
	Waco SMSA -----	-	261	112	14.8	154.7	10.9	21.1	99.7	392.6	470.7	858.0	39.1	12.5	193.0	
20	Food and kindred products --	-	29	17	2.2	20.6	1.5	3.1	11.7	55.4	114.1	165.0	24.0	1.5	17.3	
201	Meat products -----	-	7	5	0.9	6.1	0.8	1.5	5.2	9.5	46.2	54.0	(D)	0.6	3.7	
208	Beverages -----	-	7	5	0.3	3.0	0.1	0.4	0.7	8.9	10.1	18.9	1.5	0.3	3.5	
23	Apparel and other textile products-----	-	21	14	1.8	9.8	1.5	2.6	6.7	16.7	30.0	47.1	0.3	1.9	14.9	
232	Men's and boys' furnishings-----	-	6	5	1.0	5.7	0.8	1.6	3.5	8.5	27.6	36.5	0.2	1.4	11.1	
233	Women's and misses' outerwear-----	-	7	5	0.6	2.6	0.4	0.7	2.1	5.7	0.7	6.4	0.1	(NA)	(NA)	
24	Lumber and wood products --	-	20	12	1.6	13.9	1.2	2.2	10.0	24.2	59.3	82.5	1.6	1.2	14.7	
25	Furniture and fixtures-----	-	9	4	0.5	3.6	0.4	0.7	2.4	6.3	8.6	15.0	0.2	0.5	4.3	
26	Paper and allied products ---	E2	9	7	0.6	6.2	0.5	1.0	4.2	13.0	22.5	35.7	(D)	0.5	10.1	
27	Printing and publishing -----	-	41	7	0.9	9.2	0.4	0.7	3.3	22.4	14.9	36.7	0.7	0.7	10.0	
32	Stone, clay, and glass products-----	-	17	9	1.5	21.3	1.3	2.6	17.5	57.2	42.4	99.9	2.0	1.5	33.9	
34	Fabricated metal products ---	-	26	9	1.1	13.0	0.7	1.5	6.6	32.4	29.4	61.5	1.8	0.8	11.1	
3441	Fabricated structural metal-----	-	5	4	0.6	7.0	0.4	0.8	3.4	12.6	17.7	30.2	(D)	0.6	7.2	
35	Machinery, except electrical -	-	26	8	0.7	7.9	0.5	1.0	5.0	15.4	20.7	37.2	1.4	0.5	6.8	
36	Electric and electronic equipment-----	-	6	3	0.5	4.3	0.4	0.7	2.8	7.2	12.6	18.7	(D)	(NA)	(NA)	
37	Transportation equipment ---	E1	9	6	0.5	7.1	0.4	0.7	3.8	12.6	13.6	27.4	(D)	0.5	8.9	
	Wichita Falls SMSA -----	-	177	54	7.9	84.5	5.3	11.9	57.2	213.2	205.8	416.6	38.8	5.0	68.0	
20	Food and kindred products --	-	18	5	0.4	3.5	0.3	0.6	1.9	13.6	21.2	34.9	2.1	0.7	9.2	
24	Lumber and wood products --	-	9	4	0.5	4.1	0.4	0.8	2.9	8.0	18.4	26.5	0.2	(NA)	(NA)	
245	Wood buildings and mobile homes-----	-	4	4	0.5	3.8	0.4	0.8	2.7	7.7	17.5	25.3	0.1	(NA)	(NA)	
2451	Mobile homes-----	-	4	4	0.5	3.8	0.4	0.8	2.7	7.7	17.5	25.3	0.1	(NA)	(NA)	
27	Printing and publishing -----	E1	15	3	0.3	3.3	0.2	0.3	1.7	8.1	2.9	10.9	(D)	0.3	4.6	
30	Rubber and miscellaneous plastics products-----	-	4	3	0.3	3.7	0.3	0.6	3.0	9.7	10.6	19.6	(D)	(NA)	(NA)	
34	Fabricated metal products ---	-	20	7	0.5	5.9	0.4	0.8	3.9	12.8	12.1	24.5	1.2	0.4	5.5	
344	Fabricated structural metal products-----	-	10	5	0.4	4.4	0.3	0.6	2.6	7.4	8.6	16.7	1.1	0.3	4.4	
35	Machinery, except electrical -	-	41	15	1.5	17.9	1.1	2.2	11.0	40.8	41.9	83.4	2.4	0.9	12.7	

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
 (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
20	Anderson County -----	-	39	17	1.8	19.2	1.5	2.9	13.5	33.7	108.8	140.3	(D)	1.4	20.9
	Food and kindred products --	-	9	4	0.5	4.2	0.4	0.9	3.0	9.5	62.7	71.0	0.3	(NA)	(NA)
20	Angelina County -----	-	127	38	8.6	98.7	6.8	14.3	73.3	263.8	256.0	532.8	21.7	8.5	149.6
	Food and kindred products --	-	6	4	0.6	5.2	0.5	1.0	3.5	11.8	30.9	42.6	2.3	0.7	7.5
20	Austin County -----	-	23	5	0.5	6.6	0.4	0.7	4.2	12.3	15.7	28.2	1.5	0.2	3.2
	Bastrop County -----	-	27	9	0.7	5.2	0.6	1.2	3.8	11.0	10.0	21.1	1.4	0.7	7.1
25	Bell County -----	-	95	41	5.4	52.3	4.1	8.5	35.7	154.8	163.6	321.6	(D)	4.7	79.3
	Furniture and fixtures -----	-	8	7	1.3	9.8	1.0	2.0	6.7	18.8	22.5	41.1	1.0	1.3	13.1
25	Bexar County -----	-	858	259	34.2	349.3	23.7	45.6	194.7	799.2	964.6	1 745.6	78.6	30.9	448.2
	Food and kindred products --	-	111	52	7.6	77.0	4.9	9.3	42.7	178.6	413.2	593.0	12.0	8.0	156.2
2026	Fluid milk -----	-	4	4	0.6	6.2	0.2	0.5	2.0	12.9	43.1	56.0	0.8	(NA)	(NA)
205	Bakery products -----	-	18	10	1.5	14.8	0.9	1.7	7.9	37.5	30.1	67.5	1.7	(NA)	(NA)
2099	Food preparations, n.e.c. -----	E1	29	12	1.0	8.3	0.7	1.3	5.6	27.5	25.5	52.9	(D)	(NA)	(NA)
2311	Men's and boys' suits and coats -----	-	6	5	1.5	9.9	1.3	2.4	7.0	21.9	6.1	27.6	(D)	(NA)	(NA)
27	Printing and publishing -----	E1	159	22	2.8	29.5	1.8	3.2	16.9	56.8	35.6	92.2	1.9	(NA)	(NA)
32	Stone, clay, and glass products -----	-	61	21	2.5	27.9	1.9	4.0	18.3	57.7	90.4	149.7	(D)	(NA)	(NA)
3241	Cement, hydraulic -----	-	3	3	0.7	9.4	0.5	1.0	6.1	25.5	37.3	64.6	9.4	(NA)	(NA)
3272	Concrete products, n.e.c. -----	E1	16	6	0.5	4.9	0.4	0.9	3.6	6.8	8.9	15.7	(D)	(NA)	(NA)
34	Fabricated metal products ---	E1	93	26	3.1	35.7	2.4	5.0	27.0	78.4	62.8	139.7	3.8	(NA)	(NA)
344	Fabricated structural metal products -----	E1	80	18	1.7	17.7	1.3	2.5	11.6	40.4	34.9	75.1	2.0	(NA)	(NA)
36	Electric and electronic equipment -----	E2	23	5	0.5	5.0	0.4	0.8	3.3	7.8	9.0	16.5	0.8	(NA)	(NA)
37	Transportation equipment ---	-	30	7	1.4	16.1	1.1	2.3	9.5	36.3	39.3	71.2	0.5	(NA)	(NA)
399	Miscellaneous manufactures -----	E1	36	12	0.5	4.9	0.4	0.8	2.6	8.4	7.8	16.0	(D)	(NA)	(NA)
-	Administrative and auxiliary --	-	20	8	1.0	17.7	-	-	-	-	-	-	-	(NA)	(NA)
24	Bowie County -----	-	75	26	3.6	37.0	2.8	4.6	19.3	85.1	69.8	157.9	2.7	6.0	35.1
	Lumber and wood products --	-	23	6	0.6	5.0	0.5	1.0	3.9	13.3	19.2	31.9	0.3	0.7	5.3
34	Brazoria County -----	-	145	53	13.1	253.8	7.0	14.1	118.5	1 313.4	2 656.4	3 979.0	507.0	10.4	582.0
	Fabricated metal products ---	-	23	12	0.7	9.0	0.6	1.2	6.9	15.4	15.3	30.7	1.0	(NA)	(NA)
Brazos County (Coextensive with Bryan-College Station, Tex., SMSA; see table 6.)															
23	Brown County -----	-	47	16	2.0	24.3	1.5	3.3	16.4	110.8	108.9	216.0	6.4	1.9	57.7
	Cameron County (Coextensive with Brownsville-Harlingen-San Benito, Tex., SMSA; see table 6.)	-													
23	Cass County -----	-	31	7	1.9	29.1	1.0	2.1	10.7	53.4	55.2	108.9	(D)	1.0	4.6
	Cherokee County -----	-	114	40	3.1	24.5	2.6	4.9	18.1	49.0	50.0	97.7	(D)	3.1	34.8
23	Apparel and other textile products -----	E1	6	4	0.6	3.4	0.5	1.0	3.2	5.9	6.7	12.1	(D)	0.5	3.1
	Lumber and wood products --	E1	45	15	0.9	6.7	0.8	1.4	5.5	12.5	17.9	30.6	(D)	1.1	16.1
30	Rubber and miscellaneous plastics products -----	-	8	4	0.6	4.7	0.5	1.0	3.3	9.0	7.6	16.3	(D)	(NA)	(NA)
3079	Miscellaneous plastics products -----	-	8	4	0.6	4.7	0.5	1.0	3.3	9.0	7.6	16.3	(D)	(NA)	(NA)
20	Coleman County -----	-	14	4	0.5	3.5	0.4	0.7	2.5	6.1	5.1	11.2	(D)	0.2	2.0
	Collin County -----	-	131	43	4.7	48.1	3.2	6.4	26.8	121.7	175.8	296.0	18.1	4.0	52.5
20	Food and kindred products --	-	12	5	0.6	6.0	0.3	0.5	2.2	22.8	54.7	77.0	(D)	(NA)	(NA)
	Apparel and other textile products -----	-	5	3	0.5	3.4	0.5	1.0	2.8	4.7	1.6	6.2	(D)	0.7	5.6
34	Fabricated metal products ---	-	16	4	0.8	8.2	0.7	1.3	6.3	19.5	29.0	48.7	1.2	0.8	11.3
36	Electric and electronic equipment -----	-	11	6	0.5	5.4	0.4	0.7	2.8	10.1	6.5	16.6	(D)	0.7	9.5

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977											1972		
			E¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials² (million dollars)	Value of shipments² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
				Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Colorado County -----	-	19	4	0.5	4.1	0.4	0.8	3.1	5.7	10.6	16.3	(D)	0.2	1.8	
	Comal County -----	-	42	15	2.8	23.7	2.4	5.0	18.7	39.7	55.5	95.6	5.6	2.9	24.4	
	Cooke County -----	-	56	20	2.7	29.8	2.3	4.3	20.4	79.5	67.5	144.6	(D)	2.2	31.7	
	Dallas County -----	-	3 235	1 011	163.7	2 138.8	98.0	193.4	995.2	4 421.0	4 255.3	8 635.7	280.7	144.0	2 451.2	
20	Food and kindred products --	-	163	73	12.4	156.3	7.4	15.2	82.2	520.3	942.5	1 459.9	38.8	11.6	301.1	
201	Meat products-----	E1	23	13	1.8	19.6	1.4	3.2	14.5	37.9	200.3	238.6	1.3	2.2	35.8	
2011	Meat packing plants -----	E1	8	6	1.0	11.4	0.7	1.8	8.8	22.8	125.8	148.8	(D)	(NA)	(NA)	
202	Dairy products-----	-	16	8	1.4	19.6	0.6	1.3	7.8	56.0	151.2	207.0	4.3	1.0	26.8	
204	Grain mill products-----	-	16	5	0.6	7.4	0.4	0.8	4.4	22.1	47.1	69.0	0.8	0.7	14.6	
208	Beverages-----	-	18	9	2.4	30.8	0.7	1.4	6.7	157.9	176.8	332.0	20.0	2.0	89.6	
209	Miscellaneous foods and kindred products-----	-	40	19	2.4	28.0	1.8	3.6	18.4	81.6	116.4	197.7	2.8	2.1	53.6	
2099	Food preparations, n.e.c.-----	-	34	14	2.0	24.4	1.5	3.0	16.2	76.3	86.1	162.6	(D)	(NA)	(NA)	
23	Apparel and other textile products-----	E1	275	123	16.8	134.5	13.6	26.3	84.0	238.4	304.8	522.2	(D)	15.0	146.6	
232	Men's and boys' furnishings-----	-	21	16	2.8	20.1	2.7	5.5	17.9	33.6	24.6	59.1	(D)	3.5	34.7	
233	Women's and misses' outerwear-----	E1	142	64	8.7	73.5	6.5	11.7	39.5	175.9	170.6	343.6	(D)	7.6	73.9	
2335	Women's and misses' dresses-----	-	88	29	3.6	33.9	2.5	4.5	14.9	68.9	77.7	144.1	2.3	(NA)	(NA)	
2339	Women's and misses' outerwear, n.e.c.-----	E2	19	15	3.1	22.0	2.5	4.5	15.4	47.7	51.4	97.8	(D)	(NA)	(NA)	
2431	Millwork-----	-	32	9	1.1	8.9	0.8	1.6	5.9	20.9	50.4	70.3	0.7	(NA)	(NA)	
2434	Wood kitchen cabinets-----	E4	20	6	0.6	5.1	0.5	0.9	4.0	8.3	7.8	15.8	0.4	(NA)	(NA)	
25	Furniture and fixtures-----	-	92	32	2.4	24.7	1.9	3.4	16.7	64.1	55.9	119.3	2.3	2.6	40.4	
251	Household furniture-----	-	39	12	1.1	11.9	0.9	1.7	8.7	29.4	35.1	64.3	0.5	1.4	22.8	
26	Paper and allied products---	-	90	49	5.4	52.6	4.0	8.3	42.3	145.2	214.1	358.5	12.0	5.1	80.2	
2641	Paper coating and glazing-----	-	18	4	0.5	5.5	0.3	0.7	3.4	11.8	18.9	30.8	(D)	(NA)	(NA)	
2642	Envelopes-----	-	6	4	0.5	6.3	0.4	0.8	4.3	12.2	12.2	24.5	(D)	(NA)	(NA)	
2643	Bags, except textile bags-----	-	9	6	0.7	9.2	0.6	1.1	6.6	17.3	35.8	53.2	1.3	(NA)	(NA)	
265	Paperboard containers and boxes-----	-	33	24	2.5	29.1	1.9	3.8	19.5	64.6	108.8	172.7	6.4	2.1	35.7	
2653	Corrugated and solid fiber boxes-----	-	25	18	1.8	22.4	1.3	2.7	14.7	47.8	86.4	133.5	3.0	(NA)	(NA)	
27	Printing and publishing-----	E1	589	104	12.2	146.9	8.1	15.3	84.7	320.0	194.9	513.4	20.4	9.6	173.4	
2711	Newspapers-----	-	38	6	2.5	32.6	1.1	1.8	12.3	90.1	44.5	134.5	(D)	(NA)	(NA)	
273	Books-----	E1	31	9	1.6	16.6	1.3	2.3	10.5	36.6	18.3	55.0	1.7	(NA)	(NA)	
2761	Manifold business forms-----	-	10	8	1.3	14.0	0.9	1.9	8.0	31.4	24.5	55.5	0.3	(NA)	(NA)	
278	Blankbooks and bookbinding-----	-	17	7	0.6	6.6	0.5	1.0	5.1	13.7	4.1	17.7	(D)	(NA)	(NA)	
2782	Blankbooks and looseleaf binders-----	-	6	5	0.5	5.5	0.4	0.8	4.2	11.8	3.8	15.4	(D)	(NA)	(NA)	
28	Chemicals and allied products-----	-	171	52	5.2	66.8	3.0	5.7	32.7	348.4	350.5	682.8	15.0	4.0	176.7	
284	Soaps, cleaners, and toilet goods-----	-	48	15	1.4	19.3	0.9	1.8	12.1	138.0	120.1	256.3	4.5	1.0	85.4	
2841	Soap and other detergents-----	-	11	7	0.7	11.6	0.5	1.1	8.3	113.1	84.2	196.0	2.8	(NA)	(NA)	
2851	Paints and allied products-----	-	22	12	1.6	20.1	0.7	1.5	8.9	91.2	119.8	209.2	(D)	(NA)	(NA)	
289	Miscellaneous chemical products-----	E1	52	15	1.2	15.1	0.7	1.3	6.2	64.3	59.7	121.8	3.6	0.7	25.6	
2899	Chemical preparations, n.e.c.-----	E1	32	6	0.8	9.5	0.4	0.8	3.6	41.8	37.0	76.9	3.0	(NA)	(NA)	
29	Petroleum and coal products-----	-	15	7	0.6	8.5	0.5	1.1	5.9	33.3	59.2	92.6	1.8	0.6	14.3	
30	Rubber and miscellaneous plastics products-----	-	102	36	3.3	34.7	2.6	5.1	22.3	73.8	92.8	164.6	4.3	2.3	42.4	
3079	Miscellaneous plastics products-----	-	95	30	2.6	27.6	2.1	4.1	17.6	62.1	67.4	127.9	4.1	(NA)	(NA)	
32	Stone, clay, and glass products-----	-	114	38	3.8	44.5	2.9	5.8	29.1	93.5	116.6	207.5	8.7	3.2	61.1	
3272	Concrete products, n.e.c.-----	-	24	9	1.2	14.2	0.9	1.8	9.1	29.1	24.4	51.4	2.0	(NA)	(NA)	
3273	Ready-mixed concrete-----	-	25	7	0.5	6.8	0.4	0.8	5.0	14.2	30.9	45.1	2.7	(NA)	(NA)	
33	Primary metal industries-----	E1	50	18	1.7	19.9	1.4	2.6	13.6	54.4	79.8	131.8	5.4	1.5	26.6	
332	Iron and steel foundries-----	E1	7	4	0.5	5.7	0.4	0.8	4.0	12.7	7.3	19.5	(D)	(NA)	(NA)	
34	Fabricated metal products-----	-	342	115	11.1	122.5	8.3	16.7	77.8	274.0	303.4	574.8	12.7	9.6	135.1	
342	Cutlery, hand tools, and hardware-----	-	16	7	0.9	9.3	0.7	1.3	5.6	21.8	21.8	42.9	1.6	(NA)	(NA)	
344	Fabricated structural metal products-----	-	156	47	4.7	56.8	3.5	7.4	37.3	120.3	154.6	275.1	4.9	4.3	58.5	
3442	Metal doors, sash, and trim-----	-	28	6	1.0	9.1	0.9	2.1	6.8	17.3	21.7	38.9	0.8	(NA)	(NA)	
3443	Fabricated plate work (boiler shops)-----	E1	17	8	0.9	12.8	0.7	1.4	8.6	28.9	20.1	48.8	2.0	(NA)	(NA)	
3444	Sheet metal work-----	-	57	16	1.1	14.9	0.8	1.4	9.4	27.5	42.6	69.9	1.0	(NA)	(NA)	

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expendi- tures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Dallas County—Con.														
34	Fabricated metal products— Con.														
346	Metal forgings and stampings -----	E1	23	10	0.6	6.8	0.5	1.0	5.1	11.3	13.1	24.3	(D)	0.7	6.6
347	Metal services, n.e.c. -----	E1	60	12	0.9	9.2	0.8	1.5	6.3	16.5	10.6	27.0	0.6	0.6	7.2
3479	Metal coating and allied services -----	E1	21	5	0.5	4.8	0.4	0.8	3.3	8.9	7.4	16.2	0.4	(NA)	(NA)
348	Miscellaneous fabricated metal products -----	-	59	23	1.6	14.1	1.2	2.4	9.1	41.6	41.7	82.0	2.9	1.1	17.4
35	Machinery, except electrical -	-	404	104	20.1	285.2	12.2	23.8	145.6	725.1	456.7	1 166.9	41.1	14.5	277.7
353	Construction and related machinery -----	-	42	21	6.5	91.9	4.5	9.1	61.4	312.5	153.0	452.0	15.9	3.7	64.5
3533	Oil field machinery -----	-	17	11	5.4	77.4	3.8	7.7	53.7	284.8	126.2	397.6	(D)	(NA)	(NA)
354	Metalworking machinery -	E1	45	10	0.7	10.0	0.5	1.1	6.3	19.4	10.3	29.2	1.5	0.5	10.2
355	Special industry machinery -	-	36	12	1.8	25.3	1.1	2.0	11.0	51.3	36.8	88.1	4.0	1.4	24.4
3559	Special industry machinery, n.e.c. -----	-	14	5	1.0	14.5	0.6	1.1	6.0	30.0	18.7	48.9	(D)	(NA)	(NA)
356	General industrial machinery -----	-	39	11	1.3	18.2	1.0	1.8	12.1	50.1	34.8	84.3	2.3	(NA)	(NA)
3585	Refrigeration and heating equipment -----	E1	30	14	2.1	22.1	1.5	2.9	13.3	47.8	72.6	119.9	1.1	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E1	173	21	2.2	27.3	1.7	3.3	18.4	50.3	29.9	77.9	3.2	1.9	26.3
3599	Machinery, except electrical, n.e.c. -----	E1	173	21	2.2	27.3	1.7	3.3	18.4	50.3	29.9	77.9	3.2	(NA)	(NA)
36	Electric and electronic equipment -----	-	222	73	36.0	517.7	21.4	44.0	253.2	1 106.4	745.7	1 828.8	95.8	34.5	579.8
366	Communication equipment -	-	64	23	19.7	311.6	9.7	19.7	119.1	705.6	466.7	1 161.1	(D)	15.8	254.9
367	Electronic components and accessories -----	-	67	19	13.0	166.1	9.0	18.8	105.0	298.3	151.9	441.8	(D)	(NA)	(NA)
3674	Semiconductors and related devices -----	-	14	7	11.7	152.3	8.0	17.0	96.8	258.8	133.8	384.4	(D)	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies -	-	18	9	1.4	18.9	1.2	2.3	14.7	47.7	59.3	104.6	3.1	(NA)	(NA)
3691	Storage batteries -----	-	7	5	1.1	16.2	0.9	1.9	12.9	41.4	54.6	93.5	2.9	(NA)	(NA)
3714	Motor vehicle parts and accessories -----	E1	31	11	1.1	11.3	0.9	1.8	7.5	21.1	31.9	51.6	1.0	(NA)	(NA)
38	Instruments and related products -----	E1	71	22	2.7	30.3	1.8	3.7	16.0	58.5	44.6	100.2	4.4	2.0	27.0
39	Miscellaneous manufacturing industries -----	E2	150	21	1.9	18.8	1.4	2.6	11.4	35.5	32.6	68.3	(D)	1.8	27.4
399	Miscellaneous manufactures -----	E2	88	15	1.2	12.4	0.9	1.6	7.6	22.4	15.4	37.9	0.8	1.2	19.8
-	Administrative and auxiliary -	-	155	82	13.9	256.3	-	-	-	-	-	-	-	(NA)	(NA)
	Deaf Smith County -----	-	31	8	1.1	14.7	0.9	1.8	11.9	33.0	210.8	246.0	(D)	0.8	23.8
20	Food and kindred products -	-	12	4	0.8	12.7	0.7	1.4	10.4	29.9	207.4	239.1	(D)	0.7	21.9
	Denton County -----	-	123	36	5.7	51.4	4.0	7.8	30.9	128.6	116.2	244.0	5.9	4.2	56.9
27	Printing and publishing -----	-	17	4	0.6	6.2	0.4	0.9	3.7	20.5	7.1	27.0	(D)	(NA)	(NA)
34	Fabricated metal products -	-	13	6	0.8	6.7	0.6	1.2	4.1	16.8	30.5	47.6	0.5	(NA)	(NA)
344	Fabricated structural metal products -----	-	6	4	0.7	6.0	0.5	1.0	3.8	15.7	28.4	44.6	(D)	(NA)	(NA)
	De Witt County -----	-	19	8	0.9	7.4	0.7	1.3	4.4	17.3	28.2	42.9	2.3	0.7	9.4
	Eastland County -----	-	35	12	0.8	6.4	0.7	1.2	4.9	14.2	13.8	28.0	0.7	0.7	9.1
	Ector County (Coextensive with Odessa, Tex., SMSA; see table 6.)														
	Ellis County -----	-	93	41	5.7	62.8	4.8	9.3	46.2	183.0	199.1	384.9	10.8	4.0	84.8
29	Apparel and other textile products -----	-	10	8	0.8	4.9	0.8	1.3	4.5	7.2	6.6	13.8	(Z)	0.7	2.7
233	Women's and misses' outerwear -----	-	7	5	0.6	4.0	0.6	1.1	3.8	5.9	4.8	10.7	(D)	0.7	2.5
25	Furniture and fixtures -----	-	9	5	0.5	5.1	0.5	0.8	3.7	8.1	15.5	23.5	0.4	(NA)	(NA)
32	Stone, clay, and glass products -----	-	10	5	1.2	16.6	1.0	2.0	13.1	98.4	58.7	156.4	4.9	0.9	43.1
	El Paso County (Coextensive with El Paso, Tex., SMSA; see table 6.)														
	Erath County -----	-	29	5	0.9	8.8	0.7	1.2	4.5	20.8	18.9	37.9	(D)	0.3	3.0
	Falls County -----	-	14	6	0.6	3.9	0.5	0.8	2.8	8.2	19.3	28.3	0.2	0.4	5.3
	Fannin County -----	-	32	8	1.1	11.9	0.9	1.7	8.5	35.8	49.4	84.6	(D)	1.1	24.2

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)	
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)							
34	Fayette County -----	-	34	7	0.5	4.5	0.4	0.9	3.1	13.1	12.0	24.7	0.9	0.4	7.0	
	Fort Bend County -----	-	76	34	6.6	93.8	4.6	9.5	58.9	223.1	288.3	506.0	17.0	7.0	151.9	
	Fabricated metal products ---	-	18	10	2.6	38.1	2.3	4.6	29.1	77.0	90.8	170.5	6.7	1.0	18.2	
	Galveston County (Coextensive with Galveston-Texas City, Tex., SMSA; see table 6.)															
20	Gonzales County -----	-	26	8	0.8	5.5	0.7	1.3	4.1	17.7	54.0	70.9	3.6	0.8	10.2	
	Food and kindred products --	E1	18	6	0.6	4.2	0.6	1.1	3.1	13.9	38.5	51.8	(D)	0.8	9.9	
	Gray County -----	-	37	12	2.2	31.2	1.3	3.1	17.7	121.7	136.5	260.3	(D)	2.1	57.0	
	Grayson County (Coextensive with Sherman-Denison, Tex., SMSA; see table 6.)															
34	Gregg County -----	-	181	67	11.5	159.0	8.7	17.4	108.0	542.6	644.7	1 175.7	45.3	8.0	170.0	
	Fabricated metal products ---	-	24	15	1.8	27.2	1.5	2.9	21.9	53.0	108.7	161.3	(D)	1.3	25.8	
	35	Machinery, except electrical --	-	46	15	2.5	34.8	1.9	3.9	24.1	70.9	81.8	146.8	6.8	2.6	44.4
		Grimes County -----	-	21	9	0.7	7.4	0.6	1.1	5.3	18.9	26.2	44.0	5.4	0.4	5.6
Guadalupe County -----		-	44	12	3.1	26.1	2.6	5.1	18.4	55.4	110.7	175.5	8.3	1.1	9.4	
Hale County -----		-	54	13	1.9	19.2	1.5	3.0	15.0	46.7	261.6	306.7	5.8	1.3	30.1	
201	Harris County -----	-	3 707	1 214	187.2	2 975.6	112.6	229.1	1 516.1	8 220.1	15 136.8	23 152.8	1 917.6	143.5	3 405.3	
	Meat products -----	-	21	12	1.2	16.1	1.0	1.9	11.0	28.0	150.6	178.4	(D)	(NA)	(NA)	
	Sausages and other prepared meats -----	-	12	7	0.6	8.6	0.4	0.8	5.4	15.7	63.4	78.9	0.7	(NA)	(NA)	
	Dairy products -----	-	7	6	0.9	10.2	0.4	0.7	3.5	30.6	71.1	101.7	(D)	1.2	18.9	
2044	Rice milling -----	-	7	5	1.5	24.4	1.1	2.2	12.7	129.2	328.2	455.1	(D)	(NA)	(NA)	
	Bakery products -----	-	29	10	2.7	37.4	1.8	3.7	22.9	100.0	62.3	162.6	(D)	2.8	57.4	
	Millwork, plywood, and structural members -----	E2	34	10	0.7	8.1	0.5	1.0	4.3	11.6	27.5	38.7	0.7	(NA)	(NA)	
	Partitions and fixtures -----	E1	23	9	0.8	10.6	0.6	1.0	6.3	16.3	20.6	36.9	0.7	0.6	9.3	
2643	Bags, except textile bags -----	-	6	3	0.5	5.3	0.4	0.9	4.2	10.9	17.3	28.1	1.5	(NA)	(NA)	
	Paperboard containers and boxes -----	-	19	13	1.1	14.4	0.8	1.8	9.5	25.8	54.4	80.0	2.6	1.2	19.0	
	Corrugated and solid fiber boxes -----	-	13	10	1.0	12.1	0.7	1.5	7.8	21.1	45.6	66.6	2.4	(NA)	(NA)	
	Newspapers -----	-	40	7	4.9	55.8	1.5	2.8	22.6	118.6	60.0	178.6	4.4	(NA)	(NA)	
275	Commercial printing -----	E3	317	34	3.2	40.7	2.4	4.6	27.8	72.6	50.1	122.4	4.0	(NA)	(NA)	
	Commercial printing, letterpress -----	E5	171	14	1.3	14.8	1.0	1.8	10.6	28.3	16.9	45.2	1.5	(NA)	(NA)	
	Commercial printing, lithographic -----	E1	135	20	1.9	25.4	1.4	2.7	16.9	43.2	32.9	75.9	2.4	(NA)	(NA)	
	Printing trade services -----	E1	50	8	0.5	7.1	0.4	0.7	5.0	11.7	2.4	14.1	0.6	(NA)	(NA)	
2821	Plastics materials and resins -----	-	15	13	2.4	46.2	1.6	3.4	27.7	301.9	514.8	805.1	(D)	(NA)	(NA)	
	Fabricated rubber products, n.e.c. -----	-	18	9	0.9	11.7	0.7	1.3	7.6	22.0	12.1	34.0	(D)	(NA)	(NA)	
	Miscellaneous plastics products -----	E1	125	43	4.1	44.6	3.2	6.5	29.4	98.9	92.7	186.4	9.1	(NA)	(NA)	
	Cement, hydraulic -----	-	4	4	0.5	9.7	0.4	0.8	7.6	38.3	47.5	86.2	(D)	(NA)	(NA)	
3241	Concrete, gypsum, and plaster products -----	-	78	39	3.1	40.4	2.4	5.2	30.0	109.0	173.4	282.2	10.2	2.9	51.9	
	Ready-mixed concrete --	-	32	20	2.0	28.1	1.6	3.5	21.2	68.7	140.5	209.3	8.4	(NA)	(NA)	
	Blast furnace and basic steel products -----	-	29	15	6.3	123.0	4.8	9.6	87.3	154.7	417.2	558.0	(D)	(NA)	(NA)	
	Fabricated metal products ---	E1	603	241	27.3	381.3	19.9	40.8	250.2	875.7	936.4	1 792.1	71.4	21.0	378.8	
3411	Metal cans -----	E1	5	5	1.3	24.2	1.0	2.2	19.4	43.2	144.9	187.4	5.1	(NA)	(NA)	
	Fabricated structural metal products -----	E1	263	113	12.0	156.5	8.5	17.1	96.5	342.4	378.0	719.4	(D)	8.8	153.6	
	Fabricated structural metal -----	-	61	32	3.1	39.5	2.3	5.0	26.4	71.1	83.0	154.2	5.1	(NA)	(NA)	
	Fabricated plate work (boiler shops) -----	-	56	34	4.3	61.7	3.0	6.0	38.8	149.6	114.3	262.2	8.1	(NA)	(NA)	
3448	Prefabricated metal buildings -----	E1	23	13	2.0	25.7	1.4	2.6	14.7	61.5	88.6	150.4	2.1	(NA)	(NA)	
	Metal forgings and stampings -----	-	31	13	1.8	27.0	1.4	2.7	17.9	91.7	74.4	160.0	(D)	(NA)	(NA)	
	Fabricated pipe and fittings -----	-	29	16	3.6	62.0	2.7	5.3	42.6	134.0	115.0	241.8	(D)	(NA)	(NA)	
	Construction and related machinery -----	-	150	88	26.0	397.3	17.1	35.3	241.6	1 019.3	535.6	1 689.8	117.3	17.0	372.7	
3536	Hoists, cranes, and monorails -----	E2	10	4	0.5	7.1	0.4	0.8	4.7	15.3	13.1	28.0	0.3	(NA)	(NA)	
	Special industry machinery -	-	32	8	1.1	17.4	0.6	1.4	8.7	35.2	24.2	57.0	(D)	(NA)	(NA)	
	Pumps and pumping equipment -----	-	19	13	1.1	16.4	0.7	1.4	9.4	27.5	24.9	52.2	1.0	(NA)	(NA)	
	Blowers and fans -----	-	11	7	0.5	6.2	0.3	0.5	3.0	9.1	11.5	21.4	0.6	(NA)	(NA)	
3564	Miscellaneous machinery, except electrical -----	E2	444	78	5.3	76.1	4.1	8.6	52.8	139.2	56.2	201.8	8.8	(NA)	(NA)	

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Harris County—Con.														
34	Fabricated metal products—Con.														
361	Electric distributing equipment -----	-	22	7	0.9	14.0	0.7	1.4	8.0	31.0	37.9	69.4	(D)	(NA)	(NA)
3662	Radio and TV communication equipment -----	-	23	11	2.3	32.0	1.5	2.8	15.6	76.5	55.8	124.8	4.3	(NA)	(NA)
371	Motor vehicles and equipment -----	E4	37	10	0.5	6.2	0.4	0.8	4.5	13.1	17.3	30.1	0.9	(NA)	(NA)
-	Administrative and auxiliary --	-	160	92	22.0	510.8	-	-	-	-	-	-	-	(NA)	(NA)
	Harrison County -----	-	66	29	4.4	47.3	3.3	5.6	31.2	98.6	117.2	211.7	7.1	5.9	125.9
34	Fabricated metal products ---	-	10	4	1.5	17.0	1.0	2.0	9.9	33.5	10.1	41.5	(D)	1.7	23.8
	Hays County -----	-	24	7	0.9	9.5	0.6	1.2	5.1	21.3	18.8	39.9	(D)	0.5	8.1
	Henderson County -----	-	50	14	1.8	14.1	1.5	2.8	11.1	48.1	60.3	104.2	5.4	1.8	24.8
	Hidalgo County (Coextensive with McAllen-Pharr-Edinburg, Tex., SMSA; see table 6.)														
	Hill County -----	-	37	11	1.2	9.9	0.9	1.7	6.2	28.9	37.3	67.1	1.2	1.5	21.0
	Hopkins County -----	-	34	13	2.0	18.8	1.4	3.0	13.2	46.7	61.8	108.3	2.9	1.7	23.7
	Houston County -----	-	41	9	1.1	10.6	0.9	1.7	7.8	22.8	33.3	56.2	2.6	0.7	14.0
	Howard County -----	-	32	12	1.9	25.4	1.4	2.8	17.5	64.2	373.4	443.5	18.6	1.6	40.4
	Hunt County -----	-	81	24	6.1	69.6	4.9	9.9	52.7	136.2	96.7	230.3	7.5	4.0	55.8
20	Food and kindred products --	-	8	4	0.5	3.9	0.4	0.9	3.3	11.5	11.5	23.0	0.6	(NA)	(NA)
23	Apparel and other textile products -----	-	9	7	1.2	8.5	1.0	1.9	6.6	12.8	5.0	17.4	(D)	1.2	9.0
	Jasper County -----	-	60	12	3.0	41.7	2.3	4.7	28.8	104.8	143.3	246.5	17.1	2.9	56.2
2411	Logging camps and logging contractors -----	E1	29	3	0.5	5.1	0.4	0.7	3.8	11.3	19.8	31.1	1.7	(NA)	(NA)
	Jefferson County -----	-	240	84	28.4	521.6	20.6	42.1	355.2	2 274.3	7 553.4	9 756.7	406.6	27.8	723.0
28	Chemicals and allied products -----	-	19	15	5.6	119.9	3.7	7.8	71.9	607.3	840.0	1 443.8	103.7	5.2	242.0
2822	Synthetic rubber -----	-	3	3	1.9	36.5	1.4	2.6	25.3	87.9	262.1	352.6	(D)	(NA)	(NA)
2911	Petroleum refining -----	-	11	10	13.6	274.9	10.6	22.0	205.3	1 421.9	6 414.2	7 762.3	283.3	(NA)	(NA)
341	Metal cans and shipping containers -----	-	4	3	0.5	7.8	0.4	0.7	5.6	14.8	28.6	44.8	(D)	0.6	12.6
349	Miscellaneous fabricated metal products -----	-	11	3	0.6	7.1	0.4	0.8	5.0	12.8	14.4	28.0	0.7	(NA)	(NA)
	Johnson County -----	-	101	31	3.7	34.4	2.9	5.3	23.7	88.5	125.6	209.4	4.7	3.5	44.5
24	Lumber and wood products --	-	7	4	0.5	4.1	0.4	0.7	2.9	7.5	12.4	19.6	0.6	0.5	3.9
	Kaufman County -----	-	61	19	2.0	19.8	1.6	3.2	13.7	46.7	58.5	105.0	4.1	1.3	22.3
34	Fabricated metal products ---	-	8	7	1.0	10.7	0.8	1.8	7.8	20.6	23.7	45.0	1.8	(NA)	(NA)
344	Fabricated structural metal products -----	-	5	4	0.7	7.5	0.6	1.2	5.2	14.3	18.4	32.8	(D)	(NA)	(NA)
	Kerr County -----	-	25	4	0.9	8.5	0.6	1.2	4.6	21.3	12.6	32.9	1.6	0.2	2.4
	Lamar County -----	-	57	22	4.9	51.8	4.0	7.5	37.2	215.4	251.3	467.9	10.5	4.3	107.2
	Lamb County -----	-	18	3	0.8	7.4	0.8	1.5	6.2	9.2	24.6	33.1	(D)	0.1	1.4
	Lavaca County -----	-	38	12	1.6	12.4	1.0	1.9	6.5	26.6	36.1	60.1	0.6	0.6	4.8
	Liberty County -----	-	50	11	1.0	13.5	0.8	1.7	9.3	27.8	60.6	85.4	3.8	0.4	5.0
	Limestone County -----	-	18	11	0.9	6.2	0.7	1.4	4.8	10.1	16.4	26.8	0.3	0.6	5.9
	Lubbock County (Coextensive with Lubbock, Tex., SMSA; see table 6.)														
	McLennan County (Coextensive with Waco, Tex., SMSA; see table 6.)														
	Matagorda County -----	-	28	6	0.8	12.1	0.6	1.1	5.8	21.8	110.8	130.9	(D)	(D)	(D)
	Medina County -----	-	19	4	0.5	5.0	0.4	0.8	3.6	11.7	7.5	18.7	0.3	0.6	7.7
	Midland County (Coextensive with Midland, Tex., SMSA; see table 6.)														

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	E1	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Montague County -----	-	23	6	0.5	4.0	0.5	0.9	3.0	8.2	10.6	18.7	0.3	1.0	10.5
	Montgomery County -----	-	89	30	2.1	25.4	1.5	3.0	15.4	58.6	102.7	161.3	8.0	1.4	34.6
	Nacogdoches County -----	-	67	26	3.5	33.8	2.8	5.2	24.0	79.5	112.7	187.4	5.5	2.9	43.0
20	Food and kindred products --	-	7	5	0.8	8.0	0.6	1.1	4.5	9.6	45.2	54.3	1.9	0.7	9.1
24	Lumber and wood products --	E1	34	8	0.7	6.9	0.6	1.4	5.6	17.4	19.8	36.8	1.2	0.7	6.7
	Navarro County -----	-	38	21	2.3	23.7	1.8	3.5	16.6	59.4	79.5	134.9	5.7	2.1	37.6
	Newton County -----	-	38	3	0.6	7.2	0.6	1.1	5.4	26.3	23.1	49.3	1.3	0.4	5.3
24	Lumber and wood products --	E1	35	3	0.6	7.1	0.5	1.1	5.4	26.2	23.0	49.1	1.3	(NA)	(NA)
	Nolan County -----	-	24	13	1.5	15.1	1.1	2.3	11.1	32.6	78.4	111.8	5.9	1.1	18.4
32	Stone, clay, and glass products -----	-	5	3	0.5	7.4	0.4	0.8	5.5	17.4	26.3	44.9	(D)	0.5	11.8
	Orange County -----	-	74	27	8.9	147.5	6.1	10.8	91.5	319.3	727.2	1 048.6	146.0	8.1	286.8
28	Chemicals and allied products -----	-	8	7	4.2	91.8	2.6	5.4	53.2	210.3	591.8	802.6	118.1	(NA)	(NA)
	Palo Pinto County -----	-	40	15	2.1	18.6	1.4	2.9	11.0	43.4	45.1	88.5	3.5	2.3	27.6
	Panola County -----	-	21	4	0.5	4.2	0.4	0.9	3.3	12.6	13.3	26.1	2.0	0.5	6.6
	Parker County -----	-	53	12	1.2	11.0	0.9	1.7	7.5	26.8	26.3	54.7	3.8	0.4	5.6
35	Machinery, except electrical --	-	9	3	0.5	4.3	0.4	0.6	2.8	8.4	7.2	15.4	0.5	(NA)	(NA)
	Polk County -----	-	46	7	1.1	12.6	1.0	2.3	10.4	31.5	36.9	68.5	3.1	0.5	7.8
24	Lumber and wood products --	-	33	5	1.0	11.6	0.9	2.1	9.9	29.3	35.0	64.4	2.2	0.6	6.9
	Potter County -----	-	180	51	7.1	86.9	5.1	10.5	56.3	458.4	1 495.3	1 952.2	9.9	4.9	63.5
27	Printing and publishing -----	E2	30	6	0.5	5.5	0.3	0.5	2.6	14.3	6.9	21.2	(D)	(NA)	(NA)
	Randall County -----	-	31	9	0.6	7.1	0.4	0.8	3.4	16.3	38.7	56.2	5.2	0.8	5.2
	Red River County -----	-	24	10	1.1	7.0	0.9	1.4	5.4	14.1	20.4	34.4	0.9	0.8	8.9
	Rockwall County -----	-	17	4	0.5	5.9	0.4	0.8	3.7	9.7	20.3	30.4	0.4	(D)	(D)
	Runnels County -----	-	13	5	0.6	4.7	0.5	1.0	3.0	11.5	12.1	23.1	0.7	0.6	7.0
	Rusk County -----	-	53	17	1.8	17.3	1.4	2.9	12.1	36.0	38.2	73.8	3.4	1.3	13.5
242	Shelby County -----	-	53	10	2.5	18.9	2.1	4.6	14.3	41.8	78.2	118.6	5.5	1.0	14.9
	Sawmills and planing mills --	-	10	7	1.5	11.4	1.2	2.8	8.5	25.9	20.1	44.8	2.4	(NA)	(NA)
	Smith County (Coextensive with Tyler, Tex., SMSA; see table 6.)														
	Stephens County -----	-	18	8	0.6	5.7	0.5	1.0	3.5	9.7	11.0	22.2	1.0	0.8	9.3
	Tarrant County -----	-	1 649	545	82.0	1 131.0	55.3	110.9	663.3	2 831.9	3 470.7	6 134.9	170.4	67.3	1 342.0
20	Food and kindred products --	-	93	51	6.4	86.8	4.4	8.9	57.1	319.2	636.7	957.9	21.3	5.5	123.5
201	Meat products -----	-	15	7	0.5	6.5	0.4	0.9	5.2	13.9	87.3	100.6	(D)	(NA)	(NA)
204	Grain mill products -----	-	12	8	0.8	8.3	0.5	1.1	5.2	26.9	111.7	138.5	1.8	0.5	17.4
208	Beverages -----	-	10	10	2.2	39.6	1.4	2.9	26.8	173.7	229.7	402.4	11.3	(NA)	(NA)
23	Apparel and other textile products -----	E2	60	22	1.9	12.9	1.6	2.7	8.7	26.4	32.9	59.3	0.4	1.5	17.8
233	Women's and misses' outerwear -----	E1	12	3	0.5	3.3	0.4	0.7	2.3	6.2	8.4	14.5	(D)	(NA)	(NA)
24	Lumber and wood products --	-	82	24	2.5	21.9	2.2	4.0	16.0	42.5	79.7	121.2	(D)	2.5	29.9
243	Millwork, plywood, and structural members -----	E1	41	10	0.6	5.4	0.5	1.0	3.9	10.8	14.0	24.7	0.3	0.5	6.1
245	Wood buildings and mobile homes -----	-	12	9	1.5	14.0	1.3	2.4	10.2	27.4	60.0	88.8	(D)	1.8	21.7
25	Furniture and fixtures -----	E1	70	25	2.4	18.7	2.1	3.8	13.9	33.7	31.1	64.2	1.7	2.0	23.9
251	Household furniture -----	-	44	21	2.2	16.3	1.8	3.4	12.2	30.0	27.6	57.1	1.6	1.8	20.9
2511	Wood household furniture -----	E1	24	9	1.5	11.3	1.3	2.5	8.7	19.2	15.6	34.7	(D)	(NA)	(NA)
27	Printing and publishing -----	-	219	44	4.1	44.2	2.6	5.0	26.5	102.2	62.9	164.2	3.4	3.9	64.9
275	Commercial printing -----	-	128	24	1.8	19.2	1.4	2.6	14.3	38.0	28.8	66.5	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	64	21	2.4	32.6	1.0	2.0	10.9	106.3	77.5	180.8	(D)	(NA)	(NA)
29	Petroleum and coal products --	-	9	4	1.0	14.6	0.3	0.6	3.6	39.7	90.1	127.7	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	92	41	4.8	51.8	3.6	7.2	30.6	100.2	111.3	207.5	9.9	(NA)	(NA)
3079	Miscellaneous plastics products -----	E1	80	34	3.3	30.7	2.7	5.3	20.5	69.7	74.2	142.6	8.3	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Tarrant County—Con.														
31	Leather and leather products -----	E7	19	7	1.0	7.4	0.8	1.4	4.5	17.3	17.8	35.4	(D)	0.8	11.5
3273	Ready-mixed concrete --	-	17	9	0.5	7.2	0.4	0.9	5.1	16.9	34.4	51.4	1.6	(NA)	(NA)
33	Primary metal industries -----	-	35	12	2.6	30.9	2.2	4.6	24.2	55.9	43.9	98.9	3.5	0.7	9.3
34	Fabricated metal products ---	-	187	69	5.2	62.9	4.1	8.5	42.9	151.8	212.8	364.6	10.1	6.5	84.4
344	Fabricated structural metal products -----	-	85	30	2.5	27.2	1.8	4.0	16.8	50.3	70.4	122.3	3.2	3.0	34.8
3441	Fabricated structural metal -----	-	18	11	1.1	11.9	0.8	1.9	7.6	20.9	33.9	57.1	1.5	(NA)	(NA)
3443	Fabricated plate work (boiler shops) -----	E1	18	8	0.6	6.3	0.5	1.0	4.7	10.2	15.4	25.2	0.7	(NA)	(NA)
346	Metal forgings and stampings -----	-	16	8	0.6	7.2	0.5	1.0	4.8	18.2	17.4	35.8	1.6	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	E1	35	10	0.7	7.1	0.6	1.1	5.0	16.3	19.7	35.5	1.7	0.6	7.2
35	Machinery, except electrical ---	-	293	84	10.8	136.8	8.0	15.7	86.6	335.4	359.5	689.7	18.2	6.1	134.5
353	Construction and related machinery -----	-	39	23	3.2	45.6	2.4	5.1	29.5	91.8	80.2	173.1	8.0	(NA)	(NA)
3533	Oil field machinery -----	-	8	5	1.7	28.2	1.3	2.9	18.6	57.7	44.5	101.6	(D)	(NA)	(NA)
3535	Conveyors and conveying equipment ---	-	11	7	0.8	8.9	0.6	1.2	5.4	17.1	16.7	35.3	(D)	(NA)	(NA)
358	Refrigeration and service machinery -----	-	36	18	3.9	44.1	2.8	4.8	25.8	136.0	196.7	327.0	4.1	1.7	50.8
3585	Refrigeration and heating equipment ---	-	23	12	3.5	38.9	2.5	4.2	23.0	127.1	186.2	308.1	3.8	(NA)	(NA)
36	Electric and electronic equipment -----	-	61	18	3.3	33.5	2.3	4.1	17.5	122.3	60.8	178.5	15.6	1.1	20.7
366	Communication equipment -	-	17	10	2.1	23.3	1.5	2.9	12.3	96.2	47.7	141.4	(D)	(NA)	(NA)
37	Transportation equipment ---	-	104	40	25.6	475.8	15.4	33.0	275.5	1 202.6	1 443.0	2 499.9	31.4	25.7	619.7
3728	Aircraft equipment, n.e.c. -----	E1	13	7	0.8	12.7	0.6	1.0	8.4	24.0	13.6	37.1	(D)	(NA)	(NA)
3792	Travel trailers and campers -----	-	19	6	0.6	5.1	0.5	0.8	3.4	12.2	22.1	34.2	(D)	(NA)	(NA)
382	Measuring and controlling devices -----	-	10	4	0.5	5.9	0.3	0.7	2.7	15.8	5.3	20.5	0.4	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	69	14	2.1	21.4	1.5	2.6	11.7	51.4	38.5	88.9	1.5	(NA)	(NA)
394	Toys and sporting goods --	-	13	4	1.0	9.9	0.8	1.3	6.0	29.0	23.2	51.3	0.9	(NA)	(NA)
399	Miscellaneous manufactures -----	-	40	7	0.8	9.3	0.5	0.9	4.5	18.6	11.2	29.9	(D)	(NA)	(NA)
-	Administrative and auxiliary --	-	37	17	1.5	25.4	-	-	-	-	-	-	-	(NA)	(NA)
	Taylor County -----	-	124	39	5.5	48.5	4.0	7.8	31.3	102.1	498.0	603.3	7.7	5.0	57.8
23	Apparel and other textile products -----	-	6	3	0.9	5.0	0.8	1.3	4.1	5.8	2.7	8.3	(D)	(NA)	(NA)
	Titus County -----	-	37	12	1.2	10.6	1.0	1.9	7.6	35.4	150.8	186.0	1.3	1.1	21.5
	Tom Green County (Coextensive with San Angelo, Tex., SMSA; see table 6.)														
	Travis County -----	-	426	107	17.8	230.9	9.3	17.5	84.5	505.7	422.9	898.7	(D)	12.2	229.8
20	Food and kindred products --	E1	38	16	1.4	14.2	0.7	1.3	5.6	34.1	51.7	85.6	3.0	(NA)	(NA)
25	Furniture and fixtures -----	-	18	3	1.3	9.8	1.1	2.1	6.5	15.4	16.9	31.6	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	24	6	0.5	6.3	0.4	1.0	4.7	18.9	15.8	34.7	1.8	(NA)	(NA)
327	Concrete, gypsum, and plaster products -----	-	16	5	0.5	5.7	0.4	0.9	4.1	17.4	15.0	32.5	(D)	(NA)	(NA)
34	Fabricated metal products ---	E3	29	9	0.5	5.5	0.4	0.8	3.6	9.6	17.9	27.4	1.6	0.5	4.9
38	Instruments and related products -----	E1	21	8	0.7	7.9	0.4	0.7	3.4	18.8	9.8	27.5	2.0	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	23	4	0.5	5.3	0.3	0.7	2.4	14.0	6.7	20.8	(D)	0.6	5.1
	Tyler County -----	-	49	8	0.7	8.0	0.7	1.3	5.0	14.1	19.0	32.3	1.0	0.7	9.3
	Val Verde County -----	-	16	4	0.7	5.0	0.5	1.0	3.5	15.7	22.6	38.6	(D)	(D)	(D)
	Van Zandt County -----	-	26	8	0.9	7.2	0.7	1.3	5.2	16.2	13.5	29.9	0.8	0.7	7.2
	Victoria County -----	-	43	13	2.7	44.1	1.8	3.9	24.9	181.0	328.8	512.3	43.3	2.8	103.3
	Walker County -----	-	42	13	1.5	13.7	1.3	2.5	10.5	49.5	60.5	109.8	1.6	0.7	12.9
24	Lumber and wood products --	-	20	5	1.2	10.6	1.0	2.0	8.5	39.6	52.2	91.8	0.9	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expen- ditures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
35	Washington County -----	-	30	15	1.3	12.6	1.1	2.3	9.0	32.0	33.7	65.7	2.8	1.2	19.6
	Webb County (Coextensive with Laredo, Tex., SMSA; see table 6.)	-													
	Wharton County -----	-	39	8	0.9	8.2	0.7	1.3	5.6	13.5	33.8	46.6	1.7	0.7	10.4
	Wichita County -----	-	168	52	7.7	82.8	6.1	11.6	56.2	209.0	194.7	401.4	(D)	(D)	(D)
	Machinery, except electrical -	-	41	15	1.5	17.9	1.1	2.2	11.0	40.8	41.9	83.4	2.4	(NA)	(NA)
	Wilbarger County -----	-	15	4	0.5	4.5	0.4	0.8	3.2	18.1	31.8	50.0	(D)	0.7	13.0
	Williamson County -----	-	77	21	2.0	18.5	1.5	2.9	10.5	26.6	37.9	63.0	(D)	1.3	12.1
	Wise County -----	-	31	6	0.5	4.6	0.4	0.8	3.0	10.1	8.5	18.5	1.5	0.5	6.1
	Wood County -----	-	33	7	0.7	5.2	0.6	1.4	4.2	18.2	25.8	44.0	1.1	0.6	7.5
Young County -----	-	30	9	1.5	15.7	1.2	2.4	10.4	44.7	42.8	85.9	2.2	0.9	19.7	

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
	Abilene -----	-	115	38	4.9	44.5	3.3	6.8	28.0	97.9	497.4	598.5	7.7	4.9	57.7
20	Food and kindred products --	-	21	11	1.3	12.8	0.9	1.9	7.5	39.0	129.4	165.5	3.8	(NA)	(NA)
34	Fabricated metal products ---	-	6	4	0.5	3.9	0.4	0.7	2.7	13.1	25.8	37.2	0.6	(NA)	(NA)
	Arlington -----	-	256	78	10.8	177.9	8.0	17.7	125.4	497.2	1 096.7	1 590.8	22.5	9.3	283.4
27	Printing and publishing -----	-	42	8	0.6	6.7	0.4	0.8	4.0	17.1	12.1	28.8	0.5	0.7	11.2
30	Rubber and miscellaneous plastics products -----	-	18	8	1.3	17.5	0.9	1.8	8.2	30.8	35.0	64.5	3.1	0.6	13.3
34	Fabricated metal products ---	E1	21	6	0.5	6.1	0.4	0.7	4.5	17.2	21.3	38.8	1.4	0.6	11.4
35	Machinery, except electrical --	E2	59	14	1.0	11.8	0.8	1.5	8.4	23.6	16.9	39.8	1.1	0.7	14.5
379	Miscellaneous transportation equipment -	-	5	4	0.5	4.0	0.3	0.6	2.4	8.2	18.5	26.6	0.1	(NA)	(NA)
	Athens -----	-	32	10	1.5	11.0	1.2	2.2	8.7	40.5	53.5	89.7	(D)	1.7	22.9
	Austin -----	-	371	92	11.5	125.0	6.9	13.0	61.0	278.2	200.5	474.3	20.8	7.7	93.8
20	Food and kindred products --	E1	38	16	1.4	14.2	0.7	1.3	5.6	34.1	51.7	85.6	3.0	1.1	13.0
27	Printing and publishing -----	E1	117	19	1.9	21.9	0.9	1.7	9.0	49.8	24.0	73.7	2.3	1.8	28.1
275	Commercial printing -----	E1	62	10	0.8	8.4	0.5	0.9	4.8	15.0	9.5	24.4	1.3	(NA)	(NA)
2752	Commercial printing, lithographic -----	-	25	8	0.6	6.8	0.4	0.7	3.7	12.3	7.6	19.7	1.1	(NA)	(NA)
34	Fabricated metal products ---	E2	25	9	0.5	5.1	0.4	0.7	3.3	8.7	17.1	25.8	1.5	0.5	4.6
35	Machinery, except electrical --	-	24	6	1.5	18.5	1.3	2.4	14.6	31.7	12.6	44.2	0.5	(NA)	(NA)
36	Electric and electronic equipment -----	-	21	8	2.4	28.7	1.0	2.0	9.7	88.3	26.7	112.7	(D)	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
36	Belton -----	-	10	5	0.7	6.9	0.6	1.1	4.8	20.5	14.8	35.2	1.0	0.6	10.5
	Bonham -----	-	14	5	0.8	9.8	0.7	1.3	7.0	30.8	40.0	70.1	(D)	0.9	21.5
	Breckenridge -----	-	18	8	0.6	5.7	0.5	1.0	3.5	9.7	11.0	22.2	1.0	(D)	(D)
	Brownsville -----	-	56	21	3.4	24.1	2.7	5.3	16.3	66.0	91.0	155.9	3.8	4.2	68.5
	Electric and electronic equipment -----	-	7	5	0.6	4.6	0.5	1.0	3.2	15.0	20.8	34.9	0.6	0.5	10.3
	Brownwood -----	-	38	15	2.0	24.0	1.5	3.2	16.2	109.9	108.2	214.4	6.4	1.7	55.9
	Bryan -----	-	53	21	2.1	21.4	1.6	3.2	15.0	52.5	65.3	117.4	(D)	1.8	25.0
	Carrollton -----	-	70	33	7.3	93.5	4.5	9.1	40.4	263.8	193.6	452.2	5.2	3.8	75.1
34	Fabricated metal products ---	-	13	6	1.3	13.7	0.9	2.1	7.1	27.3	26.5	54.5	0.6	(NA)	(NA)
	Cedar Hill -----	-	11	3	0.5	3.8	0.4	0.8	2.8	5.0	5.1	9.9	0.3	(NA)	(NA)
242	Center -----	-	30	6	2.2	16.7	2.0	4.3	12.9	37.1	54.6	90.3	5.0	0.8	12.8
	Sawmills and planing mills -	-	7	4	1.3	10.3	1.1	2.6	7.8	23.5	17.3	39.7	(D)	(NA)	(NA)
	Clarksville -----	-	14	9	0.9	6.2	0.8	1.3	4.8	11.2	19.1	30.1	0.9	0.5	7.4
	Cleburne -----	-	41	18	2.5	21.7	1.9	3.6	15.2	62.2	90.4	148.5	3.1	2.4	33.4
	Commerce -----	-	11	4	0.5	4.7	0.5	0.9	3.5	7.7	9.7	17.3	1.0	(NA)	(NA)
	Conroe -----	-	55	18	1.4	17.4	0.9	2.0	9.7	35.4	63.7	99.5	3.1	0.7	14.2
	Corpus Christi -----	-	197	58	6.9	88.7	4.5	8.8	50.6	271.3	1 057.6	1 333.1	(D)	6.6	147.3
	Food and kindred products --	-	24	14	1.8	19.5	1.0	1.9	9.2	41.9	117.4	158.8	2.5	1.6	25.9
	Meat products -----	-	4	4	0.6	6.7	0.5	0.8	4.7	14.3	80.0	94.0	0.7	(NA)	(NA)
	Bakery products -----	-	3	3	0.5	5.4	0.2	0.5	2.5	11.6	10.6	22.1	0.5	(NA)	(NA)
2051	Bread, cake, and related products -----	-	3	3	0.5	5.4	0.2	0.5	2.5	11.6	10.6	22.1	0.5	(NA)	(NA)
	Printing and publishing -----	E1	35	5	0.7	6.9	0.3	0.5	2.4	17.4	6.3	23.7	0.9	0.6	9.6
	Corsicana -----	-	32	17	1.7	17.0	1.3	2.8	12.1	43.5	48.4	89.1	3.7	1.7	27.3
	Dallas -----	-	2 154	693	112.7	1 458.8	67.1	133.2	673.2	2 726.9	2 768.4	5 484.5	191.3	107.2	1 793.2
	Food and kindred products --	-	137	61	10.0	123.8	5.6	11.5	58.2	394.5	740.1	1 132.2	30.1	9.3	253.4
201	Meat products -----	E1	21	12	1.8	19.1	1.4	3.1	14.1	37.2	198.0	235.7	1.2	(NA)	(NA)
2011	Meat packing plants -----	E1	8	6	1.0	11.4	0.7	1.8	8.8	22.8	125.8	148.8	0.4	(NA)	(NA)
202	Dairy products -----	-	14	6	1.3	16.3	0.4	1.0	5.0	45.4	110.0	155.3	3.5	(NA)	(NA)
2026	Fluid milk -----	-	6	6	1.2	15.9	0.4	0.9	4.9	44.7	108.3	153.0	3.4	(NA)	(NA)
205	Bakery products -----	-	18	7	2.0	26.9	1.0	1.9	12.0	58.6	51.8	110.5	2.9	(NA)	(NA)
208	Beverages -----	-	15	7	2.0	27.1	0.5	1.1	5.1	151.1	160.6	309.3	(D)	(NA)	(NA)
209	Miscellaneous foods and kindred products -----	-	37	18	1.8	20.8	1.3	2.6	12.2	49.2	94.3	143.2	1.9	(NA)	(NA)
2099	Food preparations, n.e.c. -----	E1	31	13	1.4	17.2	1.0	2.0	10.0	43.9	64.0	108.1	(D)	(NA)	(NA)
23	Apparel and other textile products -----	E1	206	109	15.1	121.1	12.3	24.1	75.6	206.3	281.5	468.8	6.7	13.4	126.1
2311	Men's and boys' suits and coats -----	-	6	4	1.2	9.9	0.9	2.6	5.8	-20.8	46.8	9.1	(D)	(NA)	(NA)
232	Men's and boys' furnishings -----	-	19	14	2.7	19.4	2.6	5.3	17.2	32.4	23.8	57.1	0.3	(NA)	(NA)
233	Women's and misses' outerwear -----	E1	106	57	8.0	68.3	6.0	11.0	36.1	158.7	160.4	316.6	5.4	(NA)	(NA)
2331	Women's and misses' blouses and waists -----	E5	13	6	0.7	5.3	0.6	0.9	2.9	11.5	15.7	27.8	0.4	(NA)	(NA)
2335	Women's and misses' dresses -----	-	62	27	3.4	32.6	2.3	4.2	13.9	65.6	75.7	138.7	2.3	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c. -----	E3	14	12	2.7	19.2	2.2	4.2	13.6	37.4	44.4	80.9	2.5	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	-	53	25	2.7	19.5	2.3	4.4	13.6	29.8	40.1	69.5	0.9	(NA)	(NA)
24	Lumber and wood products --	-	50	12	1.2	9.9	1.0	2.0	7.4	24.5	53.7	77.2	1.0	1.1	15.3
243	Millwork, plywood, and structural members -----	-	24	7	0.9	7.4	0.8	1.6	5.8	19.5	45.9	64.4	0.7	(NA)	(NA)
25	Furniture and fixtures -----	-	65	25	2.0	21.4	1.6	2.9	14.6	56.5	46.5	102.5	1.6	2.0	33.3
251	Household furniture -----	-	29	10	1.0	10.8	0.8	1.6	8.0	26.3	29.2	55.4	0.3	(NA)	(NA)
254	Partitions and fixtures -----	-	22	7	0.5	5.9	0.4	0.8	3.7	19.0	6.2	25.0	(D)	(NA)	(NA)
26	Paper and allied products ---	-	64	34	3.9	44.5	2.9	6.1	30.2	99.3	138.0	237.3	10.3	3.7	55.6
264	Miscellaneous converted paper products -----	-	39	19	2.2	25.0	1.6	3.2	16.7	51.3	75.7	127.3	4.6	(NA)	(NA)
2641	Paper coating and glazing -----	-	12	4	0.5	4.8	0.3	0.6	3.0	10.8	16.1	27.1	(D)	(NA)	(NA)
2643	Bags, except textile bags -----	-	7	5	0.7	8.6	0.5	1.1	6.2	14.9	32.6	47.6	(D)	(NA)	(NA)
2653	Corrugated and solid fiber boxes -----	-	15	8	0.8	9.7	0.6	1.2	6.3	19.3	32.7	51.8	2.2	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry		1977										1972		
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
	Dallas—Con.														
27	Printing and publishing -----	E1	450	87	10.9	131.6	7.1	13.5	74.7	290.8	163.4	452.9	15.8	8.7	159.6
2711	Newspapers -----	-	25	6	2.5	31.9	1.1	1.8	12.0	88.9	43.8	132.7	(D)	(NA)	(NA)
273	Books -----	E1	22	7	1.5	15.1	1.1	2.1	9.6	34.0	16.6	50.5	1.3	(NA)	(NA)
2732	Book printing -----	-	8	5	1.3	13.4	1.1	2.1	9.4	28.0	14.5	42.4	1.0	(NA)	(NA)
2741	Miscellaneous publishing -----	-	14	3	0.6	5.1	0.1	0.2	0.7	10.0	2.5	12.5	0.1	(NA)	(NA)
275	Commercial printing -----	E2	303	46	3.7	48.3	2.8	5.7	32.3	93.6	70.8	163.6	5.5	(NA)	(NA)
2751	Commercial printing, letterpress -----	E4	149	7	0.8	9.1	0.7	1.2	6.0	19.6	13.0	32.4	1.4	(NA)	(NA)
2752	Commercial printing, lithographic -----	E1	137	33	2.6	36.4	1.9	4.1	24.4	67.6	55.1	122.3	4.1	(NA)	(NA)
2761	Manifold business forms -----	-	7	6	1.1	11.8	0.7	1.6	6.3	28.5	14.7	42.9	0.2	(NA)	(NA)
278	Blankbooks and bookbinding -----	-	13	6	0.6	6.2	0.5	1.0	4.9	13.0	4.0	16.8	(D)	(NA)	(NA)
2782	Blankbooks and looseleaf binders -----	-	5	4	0.5	5.2	0.4	0.8	4.1	11.2	3.6	14.7	(D)	(NA)	(NA)
279	Printing trade services -----	-	36	10	0.8	11.3	0.6	1.2	8.5	17.6	7.6	25.2	1.9	(NA)	(NA)
28	Chemicals and allied products -----	-	120	31	3.4	42.9	1.9	3.4	19.5	179.7	199.6	376.0	8.9	2.5	99.4
284	Soaps, cleaners, and toilet goods -----	-	33	10	1.0	13.2	0.6	1.2	7.9	72.7	87.1	158.5	2.8	(NA)	(NA)
2851	Paints and allied products -----	-	14	6	0.8	10.2	0.3	0.6	3.5	25.0	41.7	66.3	1.0	(NA)	(NA)
289	Miscellaneous chemical products -----	E1	37	8	0.8	9.0	0.4	0.7	3.2	36.8	28.3	63.9	1.8	(NA)	(NA)
2899	Chemical preparations, n.e.c. -----	E1	22	3	0.5	6.1	0.2	0.4	1.8	20.7	13.1	32.9	1.3	(NA)	(NA)
29	Petroleum and coal products -----	-	11	5	0.5	7.4	0.4	1.0	5.3	28.3	38.5	66.9	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	55	17	1.8	19.9	1.5	2.9	13.0	43.7	61.9	104.5	2.2	1.7	30.4
3079	Miscellaneous plastics products -----	-	49	12	1.2	13.0	1.0	2.0	8.5	32.3	36.7	68.2	2.0	(NA)	(NA)
32	Stone, clay, and glass products -----	-	73	25	2.5	30.1	1.9	3.9	20.2	64.7	84.5	147.8	5.1	2.1	36.1
3272	Concrete products, n.e.c. -----	-	15	6	0.6	7.5	0.5	0.9	5.1	13.9	12.7	25.7	(D)	(NA)	(NA)
33	Primary metal industries -----	-	27	10	1.3	15.2	1.0	2.0	10.2	45.8	59.3	102.7	4.4	1.1	20.7
34	Fabricated metal products -----	-	210	69	6.5	73.2	4.8	9.8	48.2	165.9	198.3	362.3	7.7	5.5	82.5
3441	Fabricated structural metal -----	-	13	7	0.7	8.3	0.5	1.1	5.7	24.7	25.8	50.7	0.5	(NA)	(NA)
3443	Fabricated plate work (boiler shops) -----	-	9	4	0.8	10.4	0.5	1.2	7.1	23.9	15.5	39.2	(D)	(NA)	(NA)
3444	Sheet metal work -----	-	35	10	0.6	9.8	0.5	0.9	6.8	18.4	33.8	51.9	0.6	(NA)	(NA)
347	Metal services, n.e.c. -----	E1	39	9	0.7	7.4	0.6	1.2	5.1	13.2	8.7	21.8	0.5	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	30	15	1.1	9.0	0.8	1.5	5.9	28.4	32.9	60.3	(D)	(NA)	(NA)
35	Machinery, except electrical -----	-	229	60	9.6	125.4	6.1	12.0	66.2	292.5	197.5	477.2	26.6	7.6	133.6
353	Construction and related machinery -----	-	23	12	3.6	46.6	2.4	5.1	28.9	127.2	75.5	192.7	8.7	(NA)	(NA)
3533	Oil field machinery -----	-	11	6	2.7	35.8	1.9	4.0	23.2	107.3	57.0	154.2	(D)	(NA)	(NA)
354	Metalworking machinery -----	-	25	7	0.5	7.4	0.4	0.8	4.5	14.8	8.4	22.9	0.8	(NA)	(NA)
355	Special industry machinery -----	-	27	8	1.4	20.3	0.9	1.6	8.8	43.3	27.6	70.4	3.7	(NA)	(NA)
3573	Electronic computing equipment -----	-	11	5	1.2	16.5	0.3	0.5	2.5	38.6	10.9	49.2	(D)	(NA)	(NA)
3585	Refrigeration and heating equipment -----	E1	22	9	1.1	12.5	0.8	1.5	7.0	29.3	39.0	68.2	0.6	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E3	83	10	0.9	11.7	0.7	1.5	8.5	20.4	11.1	31.1	1.7	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E3	83	10	0.9	11.7	0.7	1.5	8.5	20.4	11.1	31.1	1.7	(NA)	(NA)
36	Electric and electronic equipment -----	-	101	34	19.5	276.7	12.7	26.2	159.5	510.7	313.1	817.1	(D)	24.6	427.3
3714	Motor vehicle parts and accessories -----	E2	25	7	0.6	7.0	0.5	1.1	4.6	11.8	20.5	31.3	0.7	(NA)	(NA)
38	Instruments and related products -----	E1	41	12	1.9	20.5	1.3	2.6	11.2	38.9	33.6	71.7	2.0	0.7	11.3
39	Miscellaneous manufacturing industries -----	E2	108	15	1.3	12.7	0.9	1.7	7.5	24.8	24.1	48.5	0.9	(NA)	(NA)
--	Administrative and auxiliary -----	-	121	64	11.2	211.3	-	-	-	-	-	-	-	(NA)	(NA)
	Del Rio -----	-	16	4	0.7	5.0	0.5	1.0	3.5	15.7	22.6	38.6	(D)	(D)	(D)
	Denison -----	-	36	14	2.3	26.1	1.8	3.6	18.5	107.0	187.0	290.5	9.5	2.5	48.5
20	Food and kindred products -----	-	3	3	0.8	9.5	0.7	1.3	7.5	51.3	127.8	180.7	(D)	(NA)	(NA)
	Denton -----	-	57	22	4.1	37.6	2.9	5.8	23.0	102.7	89.1	171.3	4.7	3.3	44.7
	Duncanville -----	-	22	6	0.5	5.2	0.4	0.8	3.3	12.0	11.4	23.5	0.6	(NA)	(NA)
	Edinburg -----	-	23	7	0.5	4.6	0.3	0.6	2.7	9.8	15.3	24.8	0.4	0.5	8.0

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			E ¹	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	El Campo -----	-		19 3	0.6 5.5		0.5 0.9	3.8		5.5 18.3		26.2 1.0		0.5 6.4	
2328	El Paso -----	-		386 127	26.6 221.4		21.1 38.2	146.1		689.9 1 316.9		1 998.3 (D)		24.5 320.7	
	Men's and boys' work clothing -----	-		11 9	3.6 23.6		3.4 6.8	21.1		86.4 62.4		147.0 0.7		(NA) (NA)	
233	Women's and misses' outerwear -----	E1		19 10	0.8 4.9		0.6 1.2	3.6		9.5 6.1		15.4 0.2		(NA) (NA)	
31	Leather and leather products -----	-		8 6	1.4 10.1		1.2 2.4	8.2		25.5 24.6		47.6 (D)		1.0 13.4	
32	Stone, clay, and glass products -----	E1		25 10	0.8 8.9		0.6 1.2	6.2		26.3 24.4		51.0 4.1		0.5 11.0	
327	Concrete, gypsum, and plaster products -----	E2		17 7	0.5 5.4		0.4 0.8	3.5		16.2 17.5		33.5 (D)		(NA) (NA)	
-	Administrative and auxiliary --	-		9 6	1.0 17.3		- -	-		- -		- -		(NA) (NA)	
	Ennis -----	-		39 20	2.3 21.7		1.9 3.7	15.7		31.0 60.9		92.3 1.9		1.7 22.6	
	Eules -----	-		19 9	1.7 17.2		1.1 1.7	7.5		45.2 35.4		78.2 6.7		1.0 20.0	
	Farmers Branch -----	-		94 35	3.4 43.9		2.2 4.3	21.8		74.2 77.3		149.6 7.1		2.5 39.7	
36	Electric and electronic equipment -----	E1		14 5	0.9 9.3		0.7 1.3	6.6		25.0 18.9		42.0 1.4		(NA) (NA)	
-	Administrative and auxiliary --	-		11 7	0.5 11.3		- -	-		- -		- -		(NA) (NA)	
	Fort Worth -----	-		911 313	56.2 789.5		35.3 72.2	441.4		1 913.9 1 878.3		3 633.7 114.0		46.1 850.1	
20	Food and kindred products --	-		73 41	5.7 78.8		3.8 7.7	51.4		229.1 540.0		771.9 19.2		4.9 91.5	
204	Grain mill products -----	-		6 5	0.5 5.4		0.3 0.6	3.2		16.8 68.9		85.6 (D)		(NA) (NA)	
23	Apparel and other textile products -----	E2		42 16	1.6 11.2		1.4 2.4	7.5		23.5 29.6		53.1 0.4		(NA) (NA)	
24	Lumber and wood products --	-		37 12	1.3 11.5		1.2 2.1	8.5		21.8 43.2		64.6 0.5		(NA) (NA)	
245	Wood buildings and mobile homes -----	-		3 3	0.8 7.0		0.7 1.2	5.3		12.8 31.8		44.4 (D)		(NA) (NA)	
2451	Mobile homes -----	-		3 3	0.8 7.0		0.7 1.2	5.3		12.8 31.8		44.4 (D)		(NA) (NA)	
25	Furniture and fixtures -----	-		37 18	2.1 16.1		1.7 3.2	11.9		28.7 26.3		54.6 1.5		1.6 18.8	
2511	Wood household furniture -----	-		10 6	1.4 10.3		1.2 2.2	7.9		17.1 14.0		30.9 0.8		(NA) (NA)	
26	Paper and allied products ---	-		21 11	1.0 12.9		0.7 1.4	7.5		23.3 50.3		73.5 3.0		0.8 14.5	
265	Paperboard containers and boxes -----	-		15 7	0.8 9.7		0.5 1.1	5.8		17.3 42.6		59.7 2.9		(NA) (NA)	
2752	Commercial printing, lithographic -----	-		39 18	1.2 13.4		1.0 1.9	10.6		25.9 19.8		45.4 1.2		(NA) (NA)	
28	Chemicals and allied products -----	-		31 9	1.7 24.4		0.6 1.2	6.4		65.4 36.7		99.7 5.4		1.1 32.2	
30	Rubber and miscellaneous plastics products -----	-		45 22	2.5 24.4		2.0 3.9	15.9		51.0 49.9		98.3 5.0		1.5 20.4	
32	Stone, clay, and glass products -----	E1		33 10	0.7 9.9		0.6 1.2	6.9		30.1 31.6		61.3 3.3		0.6 10.6	
33	Primary metal industries -----	-		21 8	2.1 26.6		1.8 3.8	20.9		48.0 39.7		87.2 3.2		(NA) (NA)	
34	Fabricated metal products ---	-		100 36	2.7 34.2		2.2 4.6	24.4		88.4 124.2		209.8 5.5		2.3 34.0	
341	Metal cans and shipping containers -----	-		4 4	0.5 10.4		0.4 0.9	8.0		40.2 66.3		104.7 1.9		(NA) (NA)	
3411	Metal cans -----	-		4 4	0.5 10.4		0.4 0.9	8.0		40.2 66.3		104.7 1.9		(NA) (NA)	
344	Fabricated structural metal products -----	-		44 18	1.3 14.1		1.0 2.2	9.5		25.7 38.1		63.3 1.9		(NA) (NA)	
35	Machinery, except electrical --	-		136 42	6.7 87.0		5.0 10.0	57.5		216.0 236.2		448.2 11.3		4.0 82.7	
3535	Conveyors and conveying equipment ---	-		5 4	0.6 6.4		0.4 0.9	4.0		12.3 12.3		26.0 (D)		(NA) (NA)	
3585	Refrigeration and heating equipment -----	-		13 5	2.2 25.4		1.7 3.0	18.0		84.7 122.1		203.3 2.0		(NA) (NA)	
36	Electric and electronic equipment -----	E1		34 7	0.7 5.8		0.5 0.9	4.0		11.9 8.4		19.2 0.6		(NA) (NA)	
371	Motor vehicles and equipment -----	E2		23 8	1.0 11.8		0.8 1.7	9.4		23.8 45.5		69.4 1.3		(NA) (NA)	
38	Instruments and related products -----	-		24 3	0.5 5.9		0.3 0.7	2.9		16.2 8.2		23.7 0.5		(NA) (NA)	
39	Miscellaneous manufacturing industries -----	-		40 7	1.4 13.0		1.0 1.7	7.6		35.3 26.9		61.2 1.1		0.8 13.4	
-	Administrative and auxiliary --	-		16 10	0.9 17.6		- -	-		- -		- -		(NA) (NA)	
	Gainesville -----	-		47 17	2.5 27.8		2.1 3.8	19.0		73.7 48.7		121.4 1.6		(D) (D)	
	Galveston -----	-		56 23	2.8 40.8		2.3 4.5	31.5		144.1 107.5		247.9 5.3		3.1 79.9	

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Garland -----	-	288	90	13.5	173.5	8.9	16.8	92.7	474.4	471.1	948.8	21.2	12.5	227.9
23	Apparel and other textile products -----	-	19	6	1.1	9.0	0.9	1.4	5.3	22.7	15.3	36.2	0.3	(NA)	(NA)
28	Chemicals and allied products -----	-	18	8	0.9	12.4	0.6	1.2	7.2	92.9	95.8	187.1	4.4	0.7	36.1
34	Fabricated metal products ---	-	36	16	1.4	14.6	1.1	1.8	9.8	29.1	24.3	53.6	0.9	2.5	35.4
35	Machinery, except electrical --	-	54	13	2.3	31.6	1.6	3.3	20.9	78.8	58.1	138.1	4.4	1.5	27.2
36	Electric and electronic equipment -----	-	45	17	4.4	65.5	2.2	4.4	22.8	141.2	79.4	226.3	4.2	3.7	68.0
3662	Radio and TV communication equipment -----	-	15	6	2.2	40.9	0.6	1.2	8.9	72.6	35.0	114.3	1.3	(NA)	(NA)
	Graham -----	-	18	5	0.9	10.6	0.7	1.5	8.6	27.9	22.4	48.8	(D)	(NA)	(NA)
	Grand Prairie -----	-	155	52	6.1	69.1	4.2	8.0	37.2	155.8	179.9	331.7	5.8	5.2	119.9
30	Rubber and miscellaneous plastics products -----	-	17	7	1.1	11.8	0.8	1.6	7.4	21.2	28.6	49.0	1.2	(NA)	(NA)
3079	Miscellaneous plastics products -----	-	17	7	1.1	11.8	0.8	1.6	7.4	21.2	28.6	49.0	1.2	(NA)	(NA)
35	Machinery, except electrical --	-	26	9	1.8	20.2	1.1	2.0	9.1	53.2	63.7	114.9	1.7	0.9	29.6
	Greenville -----	-	41	15	5.1	61.0	4.0	8.1	46.2	120.9	78.4	196.6	5.9	2.9	45.9
23	Apparel and other textile products -----	-	4	4	1.1	7.5	0.8	1.6	5.8	10.4	4.5	14.5	(D)	(NA)	(NA)
	Haltom City -----	-	62	18	1.4	17.1	1.1	1.9	11.5	30.4	31.4	61.4	2.2	1.2	23.7
	Harlingen -----	-	46	21	2.4	18.3	1.7	3.3	11.3	42.5	66.9	108.8	2.5	1.7	20.3
	Henderson -----	-	41	16	1.7	16.3	1.3	2.8	11.4	34.2	35.0	59.7	3.3	1.1	12.5
	Hereford -----	-	31	8	1.1	14.7	0.9	1.8	11.9	33.0	210.8	246.0	(D)	(D)	(D)
20	Food and kindred products --	-	12	4	0.8	12.7	0.7	1.4	10.4	29.9	207.4	239.1	(D)	(NA)	(NA)
	Hillsboro -----	-	23	7	0.6	5.5	0.4	0.9	3.8	19.4	23.8	44.1	0.4	1.0	15.0
	Houston -----	-	2 994	980	147.4	2 265.8	85.9	174.5	1 093.7	4 513.6	7 036.9	11 476.9	403.3	108.0	2 096.5
20	Food and kindred products --	-	124	54	10.1	137.8	6.4	13.1	81.1	505.4	1 290.0	1 791.7	36.9	10.2	326.6
201	Meat products -----	-	18	11	1.0	11.4	0.8	1.5	7.8	18.6	106.1	124.8	2.5	(NA)	(NA)
202	Dairy products -----	-	7	6	0.9	10.2	0.4	0.7	3.5	30.6	71.1	101.7	(D)	(NA)	(NA)
204	Grain mill products -----	-	12	4	1.0	12.3	0.8	1.7	8.0	88.2	257.0	345.2	5.8	(NA)	(NA)
2044	Rice milling -----	-	5	4	0.9	11.8	0.8	1.6	7.6	86.7	251.3	338.0	5.7	(NA)	(NA)
205	Bakery products -----	-	26	9	2.7	36.7	1.8	3.6	22.4	99.0	61.8	161.1	4.1	(NA)	(NA)
208	Beverages -----	-	12	8	2.2	32.6	1.0	2.0	14.2	125.6	164.6	290.5	13.5	(NA)	(NA)
209	Miscellaneous foods and kindred products -----	-	34	10	1.9	29.9	1.4	3.1	22.3	128.0	604.6	728.8	9.0	(NA)	(NA)
2095	Roasted coffee -----	-	6	3	1.1	21.3	0.9	2.0	17.0	95.0	576.9	668.2	7.3	(NA)	(NA)
2099	Food preparations, n.e.c. -----	E1	22	5	0.7	7.3	0.5	1.0	4.7	29.1	26.5	55.6	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	E2	45	3	0.5	3.7	0.4	0.8	2.7	6.4	10.1	16.5	0.2	(NA)	(NA)
24	Lumber and wood products --	-	77	23	2.2	24.5	1.6	3.3	14.0	59.0	84.6	137.0	1.6	1.7	19.2
243	Millwork, plywood, and structural members -----	E2	27	8	0.6	6.5	0.4	0.9	3.8	12.6	20.3	32.6	0.6	(NA)	(NA)
25	Furniture and fixtures -----	E2	71	27	1.7	18.4	1.4	2.5	11.7	31.4	38.9	70.2	1.2	(NA)	(NA)
251	Household furniture -----	E3	41	16	0.9	7.1	0.7	1.3	5.0	13.8	16.1	30.0	0.4	(NA)	(NA)
254	Partitions and fixtures -----	E1	20	9	0.8	10.4	0.6	1.0	6.2	15.9	20.4	36.2	0.7	(NA)	(NA)
26	Paper and allied products ---	-	39	20	2.1	25.0	1.5	3.2	16.6	47.5	86.0	133.0	4.7	2.2	34.7
265	Paperboard containers and boxes -----	-	19	13	1.1	14.4	0.8	1.8	9.5	25.8	54.4	80.0	2.6	(NA)	(NA)
2653	Corrugated and solid fiber boxes -----	-	13	10	1.0	12.1	0.7	1.5	7.8	21.1	45.6	66.6	2.4	(NA)	(NA)
27	Printing and publishing -----	E1	418	66	10.4	127.0	4.9	9.2	61.1	247.5	145.7	392.8	9.0	(NA)	(NA)
2711	Newspapers -----	-	24	4	4.7	52.6	1.4	2.4	21.4	113.0	58.7	171.7	3.4	(NA)	(NA)
2721	Periodicals -----	-	26	5	1.0	14.7	(Z)	0.2	0.4	26.4	22.9	49.3	0.3	(NA)	(NA)
275	Commercial printing -----	E2	277	32	3.0	38.2	2.2	4.3	26.0	68.2	46.8	114.8	3.7	(NA)	(NA)
2751	Commercial printing, letterpress -----	E5	147	14	1.2	13.9	0.9	1.7	9.9	26.6	15.5	42.1	1.4	(NA)	(NA)
2752	Commercial printing, lithographic -----	E1	120	18	1.7	23.9	1.3	2.5	15.8	40.5	31.0	71.3	2.3	(NA)	(NA)
278	Blankbooks and bookbinding -----	E2	15	8	0.6	6.6	0.5	0.9	4.5	12.4	4.3	16.6	0.4	(NA)	(NA)
279	Printing trade services -----	E1	41	8	0.5	6.6	0.3	0.6	4.5	10.9	2.0	13.0	0.6	(NA)	(NA)

See footnotes at end of table.

Table 8. **Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.**

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Houston—Con.														
28	Chemicals and allied products -----	-	136	41	4.4	68.4	2.5	4.9	34.3	331.6	470.1	812.4	49.8	5.1	224.4
2851	Paints and allied products -----	E1	24	15	1.2	16.7	0.5	1.0	5.8	55.3	77.2	131.7	2.2	(NA)	(NA)
289	Miscellaneous chemical products -----	-	37	8	0.5	7.6	0.3	0.6	3.9	48.7	62.9	112.0	4.2	(NA)	(NA)
3079	Miscellaneous plastics products -----	E1	100	37	3.4	37.7	2.7	5.3	24.8	84.6	85.2	164.8	7.9	(NA)	(NA)
327	Concrete, gypsum, and plaster products -----	-	52	26	2.5	33.9	2.0	4.4	25.3	88.8	151.8	240.5	9.0	(NA)	(NA)
3272	Concrete products, n.e.c. -----	-	26	10	0.6	7.2	0.5	1.1	5.2	25.4	17.4	42.5	1.4	(NA)	(NA)
329	Miscellaneous nonmetallic mineral products -----	-	37	16	1.4	17.5	1.1	2.3	11.8	36.0	45.3	84.6	1.3	(NA)	(NA)
3293	Gaskets, packing, and sealing devices -----	-	14	6	0.7	8.7	0.6	1.1	5.3	18.8	19.8	38.4	0.5	(NA)	(NA)
34	Fabricated metal products ---	E1	497	210	23.9	331.7	17.4	35.5	217.0	741.4	836.4	1 559.3	61.7	16.0	286.4
341	Metal cans and shipping containers -----	E1	11	9	1.7	30.4	1.3	3.0	23.6	60.9	167.5	227.5	6.8	(NA)	(NA)
3411	Metal cans -----	E1	5	5	1.3	24.2	1.0	2.2	19.4	43.2	144.9	187.4	5.1	(NA)	(NA)
344	Fabricated structural metal products -----	E1	214	95	10.2	129.9	7.2	14.2	78.8	286.2	326.9	608.6	14.0	(NA)	(NA)
3441	Fabricated structural metal -----	E1	50	26	2.6	33.4	2.0	4.4	22.5	58.2	69.0	127.0	4.2	(NA)	(NA)
3443	Fabricated plate work (boiler shops) -----	-	40	25	3.4	46.4	2.3	4.5	28.3	119.7	95.1	209.9	5.5	(NA)	(NA)
3444	Sheet metal work -----	E3	51	17	1.0	11.7	0.6	1.2	6.5	22.7	30.9	53.1	1.3	(NA)	(NA)
3448	Prefabricated metal buildings -----	E1	19	12	1.9	25.1	1.3	2.5	14.4	60.2	86.6	147.0	(D)	(NA)	(NA)
345	Screw machine products, bolts, etc. -----	E2	18	8	0.9	11.2	0.7	1.3	7.4	26.6	21.9	48.9	1.4	(NA)	(NA)
3452	Bolts, nuts, rivets, and washers -----	E2	14	7	0.9	10.4	0.6	1.2	6.9	24.9	19.8	45.1	1.3	(NA)	(NA)
3462	Iron and steel forgings ---	-	11	6	0.8	12.5	0.6	1.2	8.2	26.9	37.9	62.9	(D)	(NA)	(NA)
347	Metal services, n.e.c. -----	E1	70	23	1.5	17.5	1.2	2.6	12.7	38.3	20.0	57.7	3.7	(NA)	(NA)
3479	Metal coating and allied services -----	-	41	17	1.0	12.9	0.8	1.8	9.3	29.5	17.1	46.0	3.3	(NA)	(NA)
3494	Valves and pipe fittings ---	-	48	27	3.5	49.6	2.3	5.0	31.4	123.7	104.5	225.2	8.4	(NA)	(NA)
3499	Fabricated metal products, n.e.c. -----	E3	38	10	0.6	6.1	0.5	0.9	3.9	13.1	11.4	24.0	1.4	(NA)	(NA)
35	Machinery, except electrical ---	-	658	194	35.1	527.1	23.1	47.8	317.0	1 256.5	867.3	2 163.0	125.5	21.5	447.3
353	Construction and related machinery -----	-	118	68	23.6	364.8	15.5	32.1	222.8	942.7	582.9	1 545.3	107.7	(NA)	(NA)
3533	Oil field machinery -----	-	86	53	22.2	345.7	14.6	30.2	211.1	898.5	511.8	1 450.8	105.3	(NA)	(NA)
3559	Special industry machinery, n.e.c. -----	-	18	3	0.5	9.5	0.2	0.6	3.9	20.2	14.4	33.5	2.6	(NA)	(NA)
356	General industrial machinery -----	-	75	33	2.3	32.3	1.5	2.9	17.7	59.4	54.4	112.9	2.8	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E2	342	65	4.5	65.0	3.5	7.3	45.1	120.1	57.8	174.5	7.4	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E2	340	65	4.5	64.8	3.5	7.3	45.0	119.8	57.7	174.1	7.4	(NA)	(NA)
36	Electric and electronic equipment -----	-	140	44	10.3	143.9	7.0	14.2	85.3	362.8	278.5	619.2	30.7	(NA)	(NA)
3613	Switchgear and switchboard apparatus ---	-	16	5	0.8	11.8	0.6	1.2	6.9	28.7	34.9	63.7	0.5	(NA)	(NA)
362	Electrical industrial apparatus -----	E3	21	7	0.5	9.0	0.3	0.6	4.2	17.2	12.5	27.4	1.5	(NA)	(NA)
37	Transportation equipment ---	E1	60	16	1.3	17.9	1.1	2.1	13.3	39.6	57.3	93.2	1.3	1.3	17.0
373	Ship and boat building and repairing -----	E1	22	6	0.5	5.6	0.4	0.7	4.6	9.4	5.9	14.9	0.4	(NA)	(NA)
38	Instruments and related products -----	E3	92	30	2.1	27.8	1.4	2.7	14.6	62.4	29.6	90.4	3.4	(NA)	(NA)
3811	Engineering and scientific instruments ---	E1	17	8	0.5	7.2	0.4	0.8	4.6	13.8	5.0	18.5	0.7	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	E1	127	19	2.1	21.0	1.6	3.0	13.0	43.9	37.5	80.1	1.7	(NA)	(NA)
-	Administrative and auxiliary ---	-	144	81	20.7	480.7	-	-	-	-	-	-	-	(NA)	(NA)
-	Hurst -----	-	51	17	1.1	12.5	0.8	1.7	7.6	22.5	29.7	54.0	0.7	0.8	13.5
-	Irving -----	-	164	45	6.5	90.8	3.0	5.7	31.4	175.5	152.7	325.1	6.3	3.5	92.3
35	Machinery, except electrical ---	-	31	5	2.6	44.3	0.8	1.6	9.9	59.6	46.6	104.1	2.2	(NA)	(NA)
-	Administrative and auxiliary ---	-	6	5	1.1	14.4	-	-	-	-	-	-	-	(NA)	(NA)
-	Jacksonville -----	-	72	33	2.6	20.7	2.3	4.3	15.8	41.7	41.9	82.1	(D)	2.5	29.1
24	Lumber and wood products ---	-	22	13	0.7	5.6	0.6	1.2	4.5	10.9	14.8	25.8	(D)	0.9	13.0
-	Kaufman -----	-	12	6	0.5	4.0	0.4	0.8	2.8	10.8	15.8	26.1	(D)	(NA)	(NA)
-	Kennedale -----	-	22	4	0.7	9.0	0.6	1.2	6.1	28.2	21.0	50.7	(D)	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
28	Kerrville -----	-	19	4	0.9	8.2	0.6	1.1	4.4	20.7	12.2	31.8	1.6	(NA)	(NA)
	Lancaster -----	-	24	12	1.0	8.7	0.8	1.6	6.5	20.9	28.0	47.7	1.4	0.7	12.5
	La Porte -----	-	20	9	2.4	50.5	1.5	3.1	28.6	240.3	465.6	894.4	162.1	0.5	52.2
	Chemicals and allied products -----	-	9	9	2.3	49.9	1.4	3.0	28.3	239.1	464.5	692.2	(D)	(NA)	(NA)
	Laredo -----	-	51	9	0.7	6.2	0.5	1.0	3.4	13.8	12.2	26.0	0.8	(D)	(D)
	Lewisville -----	-	37	12	1.3	11.2	0.9	1.6	6.2	22.7	33.7	56.5	1.1	0.7	10.3
	Littlefield -----	-	12	3	0.8	7.3	0.8	1.4	6.1	8.7	24.3	32.4	(D)	(NA)	(NA)
207	Lubbock -----	-	269	62	12.5	132.6	8.9	17.2	73.0	327.7	468.6	777.0	(D)	5.7	110.9
	Fats and oils -----	-	3	3	0.5	5.6	0.4	1.1	4.1	37.1	71.5	98.5	(D)	(NA)	(NA)
2074	Cottonseed oil mills -----	-	3	3	0.5	5.6	0.4	1.1	4.1	37.1	71.5	98.5	(D)	(NA)	(NA)
	Lufkin -----	-	92	29	6.8	80.6	5.3	11.0	60.1	214.9	201.1	414.3	19.2	4.8	75.6
20	Food and kindred products --	-	6	4	0.6	5.2	0.5	1.0	3.5	11.8	30.9	42.6	2.3	0.7	7.5
24	Lumber and wood products --	E1	42	7	0.8	8.0	0.7	1.4	5.9	17.8	29.9	48.1	2.8	0.7	8.6
	McAllen -----	-	56	15	2.5	17.8	2.0	3.9	12.4	47.1	46.4	92.5	7.1	0.8	12.2
23	Apparel and other textile products -----	-	5	4	0.7	4.3	0.7	1.4	3.8	12.5	16.7	28.9	0.3	(NA)	(NA)
35	Machinery, except electrical --	-	13	2	0.5	3.7	0.4	0.8	2.8	8.7	7.4	15.2	(D)	(NA)	(NA)
	McGregor -----	-	10	4	0.6	7.5	0.5	0.9	4.5	10.3	12.4	23.6	(D)	0.8	13.2
	McKinney -----	-	31	17	1.5	13.0	1.2	2.3	9.0	47.6	45.4	91.1	2.9	1.1	11.3
	Marshall -----	-	56	25	2.7	24.7	2.2	4.4	17.6	57.8	57.2	114.0	(D)	2.4	27.4
	Mesquite -----	-	46	14	4.1	57.0	3.2	6.5	39.0	200.4	255.9	443.9	13.6	2.6	49.9
	Mexia -----	-	11	7	0.6	4.0	0.5	0.9	3.1	6.5	9.9	16.7	0.3	(NA)	(NA)
	Midland -----	-	76	18	1.3	16.2	0.6	1.3	6.3	30.9	26.5	57.3	6.7	1.2	20.5
	Mineola -----	-	15	4	0.5	3.6	0.5	1.1	3.1	13.8	15.1	29.0	0.7	0.5	7.0
	Mineral Wells -----	-	34	11	1.0	14.3	1.0	2.1	8.2	32.5	34.5	67.7	3.0	(D)	(D)
	Nacogdoches -----	-	53	23	3.3	32.3	2.6	4.8	22.8	74.8	105.1	175.2	5.0	2.7	40.9
	Navasota -----	-	17	9	0.7	7.3	0.6	1.1	5.3	18.8	26.2	43.8	5.4	(NA)	(NA)
	New Braunfels -----	-	36	12	2.6	21.7	2.2	4.6	17.1	33.2	46.3	81.0	(D)	(D)	(D)
	Odessa -----	-	157	39	3.2	47.4	1.9	4.1	24.3	89.3	243.8	332.1	8.4	2.9	62.1
35	Machinery, except electrical --	E1	68	17	1.2	16.7	0.9	2.1	11.7	32.2	28.2	59.7	4.0	0.5	7.8
353	Construction and related machinery -----	E2	19	7	0.5	7.4	0.4	0.8	4.6	15.7	12.0	27.2	2.4	(NA)	(NA)
	Olney -----	-	12	4	0.5	5.1	0.5	0.9	3.8	16.8	20.4	36.3	(D)	(NA)	(NA)
	Orange -----	-	44	23	6.8	144.5	5.9	10.4	89.4	314.2	723.4	1 039.9	145.5	7.0	258.7
28	Chemicals and allied products -----	-	8	7	4.2	91.8	2.6	5.4	53.2	210.3	591.8	802.6	118.1	(NA)	(NA)
	Paris -----	-	52	22	4.9	51.7	3.9	7.4	37.1	215.1	251.0	467.3	10.5	(D)	(D)
	Pasadena -----	-	79	30	4.6	80.8	3.2	6.1	49.6	303.1	684.8	979.9	120.7	2.2	99.3
28	Chemicals and allied products -----	-	21	13	3.4	63.2	2.4	4.6	41.6	279.3	663.9	936.1	119.5	1.7	93.3
	Pearland -----	-	28	10	0.8	7.1	0.5	1.0	4.7	17.0	18.0	34.5	0.8	(NA)	(NA)
	Piano -----	-	43	15	1.9	20.6	1.3	2.8	12.6	40.5	58.6	100.0	(D)	2.2	32.0
	Round Rock -----	-	20	3	0.5	7.3	0.2	0.5	2.6	7.4	14.0	19.9	(D)	(NA)	(NA)
	San Antonio -----	-	782	241	32.5	328.6	22.6	43.3	184.4	768.4	910.3	1 660.7	75.5	28.6	412.9
2026	Fluid milk -----	-	4	4	0.6	6.2	0.2	0.5	2.0	12.9	43.1	56.0	0.8	(NA)	(NA)
205	Bakery products -----	-	18	10	1.5	14.8	0.9	1.7	7.9	37.5	30.1	67.5	1.7	(NA)	(NA)
2099	Food preparations, n.e.c. -----	E1	29	12	1.0	8.3	0.7	1.3	5.6	27.5	25.5	52.9	(D)	(NA)	(NA)
2311	Men's and boys' suits and coats -----	-	6	5	1.5	9.9	1.3	2.4	7.0	21.9	6.1	27.6	(D)	(NA)	(NA)
27	Printing and publishing -----	E1	150	21	2.8	29.0	1.7	3.1	16.8	55.9	35.1	90.9	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	47	16	1.8	19.4	1.4	2.8	13.3	45.3	61.5	108.5	(D)	1.8	42.0
3241	Cement, hydraulic -----	-	3	3	0.7	9.4	0.5	1.0	6.1	25.5	37.3	64.6	9.4	(NA)	(NA)
34	Fabricated metal products ---	-	78	21	2.6	30.2	2.1	4.3	23.3	68.8	51.9	119.1	(D)	(NA)	(NA)
35	Machinery, except electrical --	-	63	20	4.7	58.1	2.5	4.8	21.7	189.1	110.5	286.8	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	E2	23	5	0.5	5.0	0.4	0.8	3.3	7.8	9.0	16.5	0.8	(NA)	(NA)
-	Administrative and auxiliary --	-	16	6	0.8	14.2	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 8. **Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.**

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
20	Sherman -----	-	51	25	6.3	79.5	4.5	9.0	47.9	174.7	277.1	441.3	22.7	4.9	115.4
	Food and kindred products --	-	12	7	1.1	13.8	0.9	1.8	9.7	40.5	175.4	211.4	(D)	0.6	18.0
	Stephenville-----	-	21	5	0.8	6.4	0.6	1.2	4.4	20.3	18.4	37.0	(D)	(NA)	(NA)
	Sugar Land -----	-	12	8	2.4	39.2	1.4	3.0	19.5	105.6	152.8	249.5	12.2	(D)	(D)
	Taylor -----	-	18	12	0.9	6.9	0.8	1.6	4.9	11.5	14.3	25.9	0.2	0.9	9.0
	Temple-----	-	62	30	4.2	41.9	3.2	6.9	29.0	127.6	142.7	273.8	(D)	3.7	64.7
	Terrell -----	-	32	13	1.5	15.3	1.2	2.3	10.5	34.1	39.7	74.1	3.3	1.3	20.5
	Texas City -----	-	33	12	7.9	158.0	5.3	11.2	105.8	1 300.9	4 176.9	5 392.7	117.0	7.5	601.1
	Tyler -----	-	151	40	8.5	100.7	6.7	12.7	70.7	291.5	413.8	698.9	(D)	7.9	161.9
	Vernon-----	-	15	4	0.5	4.5	0.4	0.8	3.2	18.1	31.8	50.0	(D)	(D)	(D)
	Waco -----	-	177	71	10.6	110.6	7.6	14.7	71.3	293.4	330.2	621.1	24.4	8.9	139.6
20	Food and kindred products --	-	22	14	1.7	14.2	1.1	2.3	7.6	35.1	78.8	112.3	(D)	1.2	12.3
23	Apparel and other textile products -----	-	13	9	1.6	8.6	1.3	2.3	5.7	14.9	29.2	44.5	0.2	1.2	9.2
233	Women's and misses' outerwear -----	-	3	3	0.5	2.1	0.3	0.6	1.7	5.0	0.5	5.5	(D)	(NA)	(NA)
27	Printing and publishing -----	-	35	7	0.9	8.8	0.4	0.7	3.1	21.7	14.6	35.7	(D)	0.7	9.4
34	Fabricated metal products ---	-	16	5	0.6	7.0	0.4	0.9	3.7	15.4	17.4	32.4	(D)	0.6	7.7
344	Fabricated structural metal products -----	-	11	3	0.5	6.3	0.4	0.8	3.2	13.6	15.0	28.2	(D)	(NA)	(NA)
	Waxahachie -----	-	23	6	1.2	13.3	0.9	1.7	9.4	39.6	31.0	71.1	2.0	1.3	20.8
	Weatherford -----	-	34	8	0.5	5.1	0.4	0.8	3.3	12.8	19.1	31.6	1.8	(NA)	(NA)
	Weslaco -----	-	20	7	0.9	7.8	0.8	1.7	5.9	34.6	46.6	80.4	0.5	0.5	15.1
	Wichita Falls -----	-	142	46	6.9	73.2	5.5	10.2	49.1	175.0	166.0	340.0	33.3	4.2	59.5
34	Fabricated metal products ---	-	17	6	0.5	5.5	0.4	0.7	3.6	11.6	11.3	22.6	(D)	(NA)	(NA)
	Yoakum -----	-	21	8	1.2	9.6	0.8	1.5	5.0	20.3	34.8	51.7	(D)	0.5	5.7

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
² Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major group descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electronic and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
TEXAS	18107	1507	1	113	925	1258	512	253	2735	843	180	582	144	1080	324	1933	2794	674	635	352	733	529
1 TO 4 EMPLOYEES	7729	523	-	42	309	662	199	55	1693	308	53	186	56	415	96	671	1237	282	278	144	412	108
5 TO 9 EMPLOYEES	2361	191	-	16	75	147	63	27	312	103	23	80	21	155	41	271	438	90	87	54	91	76
10 TO 19 EMPLOYEES	2373	177	-	15	96	144	66	31	325	118	21	85	14	163	36	284	406	82	72	49	100	89
20 TO 49 EMPLOYEES	2500	222	-	13	133	144	92	50	229	126	21	117	18	174	53	353	365	81	75	52	77	105
50 TO 99 EMPLOYEES	1375	166	-	9	123	71	51	33	100	82	13	55	20	84	37	165	160	46	43	23	27	67
100 TO 249 EMPLOYEES	1081	147	1	11	114	65	31	44	52	47	23	41	9	64	29	128	105	45	45	18	18	44
250 TO 499 EMPLOYEES	419	56	-	4	45	21	8	7	11	22	9	11	4	22	20	41	43	33	23	7	25	9
500 TO 999 EMPLOYEES	169	21	-	2	26	3	2	2	9	24	10	5	2	1	3	17	21	4	4	3	1	9
1000 TO 2499 EMPLOYEES	75	4	-	1	2	1	-	4	3	12	5	2	-	2	6	3	15	6	4	2	-	3
2500 EMPLOYEES AND OVER	25	-	-	-	2	-	-	-	1	1	2	-	-	-	3	-	4	5	4	-	-	3
ANDERSON COUNTY	39	9	-	-	2	4	2	2	4	1	1	-	1	5	1	2	3	-	1	1	-	-
1 TO 19 EMPLOYEES	22	5	-	-	-	4	-	3	3	1	-	-	-	1	3	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	12	3	-	-	-	-	1	2	1	-	1	-	-	-	1	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
ANDREWS COUNTY	13	2	-	-	1	-	-	-	4	2	1	-	-	-	1	-	-	1	-	-	-	1
1 TO 19 EMPLOYEES	12	2	-	-	-	-	-	-	-	4	2	1	-	-	1	-	-	1	-	-	-	1
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ANGELINA COUNTY	127	6	-	-	1	71	2	1	11	2	1	1	-	5	4	3	12	-	2	-	2	3
1 TO 19 EMPLOYEES	89	2	-	-	1	59	1	-	8	1	-	-	-	3	1	1	8	-	1	-	2	1
20 TO 99 EMPLOYEES	21	1	-	-	-	6	1	-	2	1	1	1	-	2	1	2	3	-	-	-	-	-
100 TO 249 EMPLOYEES	7	3	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	10	-	-	-	-	4	-	1	-	-	-	-	-	-	2	-	1	-	1	-	-	1
ARANSAS COUNTY	15	4	-	1	-	-	-	-	3	1	-	-	-	-	1	-	-	-	3	-	2	-
1 TO 19 EMPLOYEES	11	2	-	-	-	-	-	-	-	3	1	-	-	-	1	-	-	-	2	-	2	-
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARCHER COUNTY	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARMSTRONG COUNTY	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
ATASCOSA COUNTY	10	2	-	-	1	-	-	-	1	-	-	1	-	1	-	-	2	2	2	-	-	-
1 TO 19 EMPLOYEES	9	2	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AUSTIN COUNTY	23	1	-	-	-	1	1	-	4	-	1	-	-	4	2	-	4	-	2	2	1	-
1 TO 19 EMPLOYEES	19	1	-	-	-	1	1	-	4	-	1	-	-	4	-	-	4	-	2	1	1	-
20 TO 99 EMPLOYEES	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BAILEY COUNTY	11	4	-	-	-	-	-	-	1	-	-	-	-	-	-	1	4	-	1	-	-	-
1 TO 19 EMPLOYEES	10	3	-	-	-	-	-	-	1	-	-	-	-	-	-	1	4	-	1	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BANDERA COUNTY	7	-	-	1	-	-	-	-	2	1	-	-	1	1	1	-	-	1	-	-	-	-
1 TO 19 EMPLOYEES	6	1	-	-	-	-	-	-	2	1	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BASTROP COUNTY	27	3	-	-	-	5	2	-	4	-	-	-	-	4	1	2	2	-	-	3	1	-
1 TO 19 EMPLOYEES	18	2	-	-	-	4	-	-	4	-	-	-	-	1	1	1	2	-	-	2	1	-
20 TO 99 EMPLOYEES	18	1	-	-	-	1	2	-	-	-	-	-	-	1	-	1	-	-	-	1	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
BAYLOR COUNTY	4	1	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	10	2	-	-	-	-	-	-	1	1	-	-	-	1	-	4	-	-	-	-	1	-
100 TO 249 EMPLOYEES	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BELL COUNTY	95	6	-	-	4	7	8	1	16	3	-	6	3	8	5	5	9	-	3	2	6	3
1 TO 19 EMPLOYEES	54	2	-	-	1	4	2	1	11	3	-	2	2	3	2	1	6	-	3	2	5	3
20 TO 99 EMPLOYEES	26	3	-	-	2	2	2	1	4	-	-	1	1	1	1	1	2	-	-	2	1	-
100 TO 249 EMPLOYEES	11	1	-	-	1	1	1	-	1	-	-	1	-	1	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and allied products; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40's
BEXAR COUNTY	858	111	1	2	50	36	40	8	159	26	14	16	15	61	10	93	69	23	30	16	58	20
1 TO 19 EMPLOYEES	599	59	2	27	22	29	4	137	17	10	11	8	40	6	67	49	18	23	14	44	12	
20 TO 99 EMPLOYEES	175	31	-	8	11	11	3	18	3	3	5	3	13	2	18	14	4	2	2	13	6	
100 TO 249 EMPLOYEES	52	10	1	-	9	3	-	1	2	-	1	-	4	6	2	5	4	-	3	-	1	
250 EMPLOYEES AND OVER	32	11	-	-	6	-	-	-	2	1	-	-	-	2	1	3	2	1	2	-	1	
BLANCO COUNTY	5	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	-	-	-	-	
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BORDEN COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
BOSQUE COUNTY	21	1	-	-	6	2	-	-	4	-	-	-	1	1	-	1	5	-	-	-	-	
1 TO 19 EMPLOYEES	16	1	-	-	4	1	-	-	4	-	-	-	-	-	-	1	4	-	-	-	-	
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	
100 TO 249 EMPLOYEES	3	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BOWIE COUNTY	75	11	-	-	2	23	1	-	8	3	-	-	-	9	-	8	4	-	1	2	3	
1 TO 19 EMPLOYEES	49	5	-	-	17	-	-	-	6	2	-	-	-	6	-	2	-	-	-	1	3	
20 TO 99 EMPLOYEES	17	4	-	-	1	4	-	-	1	1	-	-	-	2	-	1	2	-	-	1	-	
100 TO 249 EMPLOYEES	8	2	-	-	-	2	1	-	1	-	-	-	-	1	-	-	-	-	1	-	-	
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BRAZORIA COUNTY	145	8	-	2	1	4	-	-	14	16	4	11	-	15	2	23	26	5	6	5	2	1
1 TO 19 EMPLOYEES	92	8	-	2	3	-	-	-	13	5	1	9	-	11	-	11	15	3	5	3	2	1
20 TO 99 EMPLOYEES	39	-	-	-	1	1	-	-	1	5	-	2	-	4	1	10	10	1	1	2	-	
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	1	1	1	-	-	-	-	2	1	-	-	-	-	
250 EMPLOYEES AND OVER	9	-	-	-	-	-	-	-	-	5	2	-	-	-	-	1	-	-	-	-	-	
BRAZOS COUNTY	63	5	-	-	1	2	2	-	16	4	1	4	-	5	-	7	8	2	2	1	2	1
1 TO 19 EMPLOYEES	41	3	-	-	1	1	-	-	13	2	1	3	-	-	-	4	6	1	1	1	1	
20 TO 99 EMPLOYEES	16	1	-	-	-	-	-	-	1	2	-	-	-	5	-	2	2	-	-	-	-	
100 TO 249 EMPLOYEES	5	1	-	-	-	-	1	-	2	-	-	1	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BREWSTER COUNTY	6	-	-	-	-	-	-	-	3	1	-	-	-	1	-	-	1	-	-	-	-	
1 TO 19 EMPLOYEES	6	-	-	-	-	-	-	-	3	1	-	-	-	1	-	-	1	-	-	-	-	
BRISCOE COUNTY	7	-	-	-	-	-	-	-	2	-	-	-	-	1	-	2	2	-	-	-	-	
1 TO 19 EMPLOYEES	7	-	-	-	-	-	-	-	2	-	-	-	-	1	-	2	2	-	-	-	-	
BROOKS COUNTY	5	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	1
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	1
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROWN COUNTY	47	10	-	1	1	2	1	-	7	-	-	3	1	5	1	2	5	1	4	1	2	
1 TO 19 EMPLOYEES	31	7	-	-	1	1	-	-	5	-	-	1	3	3	-	2	4	-	3	1	1	
20 TO 99 EMPLOYEES	11	3	-	-	-	-	-	-	2	-	-	1	1	1	-	1	-	1	1	1	1	
100 TO 249 EMPLOYEES	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	1	-	-	-	-	
BURLESON COUNTY	9	1	-	-	-	-	1	-	2	2	-	-	-	-	1	2	-	-	-	-	-	
1 TO 19 EMPLOYEES	6	1	-	-	-	-	-	-	2	2	-	-	-	-	-	1	-	-	-	-	-	
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BURNET COUNTY	18	-	-	-	-	-	-	-	4	-	-	1	-	5	-	1	3	2	1	1	-	
1 TO 19 EMPLOYEES	15	-	-	-	-	-	-	-	-	-	-	-	-	3	-	1	3	1	1	-	-	
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CALDWELL COUNTY	15	5	-	-	1	2	1	-	3	-	-	-	-	-	-	-	2	-	1	-	-	
1 TO 19 EMPLOYEES	10	2	-	-	1	1	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	4	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CALHOUN COUNTY	23	4	-	-	-	-	-	-	3	5	-	-	-	4	1	1	2	-	2	-	-	1
1 TO 19 EMPLOYEES	18	3	-	-	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	3	1	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	
CALLAHAN COUNTY	6	-	-	-	-	-	-	-	3	-	-	-	-	-	-	1	1	-	1	-	-	
1 TO 19 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and coal products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
CAMERON COUNTY	151	31	-	3	14	3	2	3	17	7	1	1	-	11	1	12	13	7	14	-	-	6
1 TO 19 EMPLOYEES	95	14	-	3	3	3	1	2	13	6	1	1	-	8	1	7	11	2	9	-	5	3
20 TO 99 EMPLOYEES	33	10	-	-	1	-	1	1	3	1	-	-	-	1	-	4	2	3	5	-	1	3
100 TO 249 EMPLOYEES	11	5	-	-	-	-	-	-	1	1	-	-	-	-	-	1	-	1	-	-	-	-
250 EMPLOYEES AND OVER	12	2	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-
CAMP COUNTY	14	3	-	-	1	2	1	1	1	-	-	-	-	3	-	-	1	1	-	-	1	-
1 TO 19 EMPLOYEES	9	1	-	-	-	-	1	-	1	-	-	-	-	3	-	-	1	1	-	-	-	1
20 TO 99 EMPLOYEES	4	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CARSON COUNTY	6	-	-	-	1	-	-	-	1	1	-	-	-	-	-	1	1	-	-	-	1	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CASS COUNTY	31	4	-	-	2	12	-	2	4	1	-	-	1	2	-	2	-	-	1	-	-	-
1 TO 19 EMPLOYEES	24	4	-	-	1	9	-	-	4	1	-	-	-	2	-	2	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CASTRO COUNTY	7	1	-	-	-	-	-	-	2	-	-	-	-	2	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHAMBERS COUNTY	7	2	-	-	-	-	-	-	-	1	1	-	1	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
CHEROKEE COUNTY	114	7	-	-	6	45	4	1	9	4	-	8	1	3	-	4	13	2	2	-	4	1
1 TO 19 EMPLOYEES	74	6	-	-	2	30	2	1	7	3	-	4	1	3	-	3	9	2	1	-	2	1
20 TO 99 EMPLOYEES	34	1	-	-	2	14	1	1	2	1	-	3	1	-	-	1	4	1	1	-	1	1
100 TO 249 EMPLOYEES	4	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHILDRESS COUNTY	10	1	-	-	1	1	-	-	2	-	-	1	-	-	-	2	1	-	1	-	-	-
1 TO 19 EMPLOYEES	8	1	-	-	1	-	-	-	2	-	-	1	-	-	-	2	1	-	1	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLAY COUNTY	9	1	-	-	1	1	-	1	2	-	-	-	1	-	-	1	-	-	-	-	1	-
1 TO 19 EMPLOYEES	7	1	-	-	1	-	-	1	2	-	-	-	-	-	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COCHRAN COUNTY	5	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COKE COUNTY	2	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COLLIN COUNTY	131	12	-	-	5	5	6	3	16	2	2	7	4	7	3	16	17	11	4	1	7	3
1 TO 19 EMPLOYEES	88	7	-	-	2	3	2	3	13	1	2	5	2	4	3	12	15	5	3	1	7	1
20 TO 99 EMPLOYEES	30	4	-	-	1	2	1	-	3	1	-	2	1	1	2	1	1	4	1	1	1	2
100 TO 249 EMPLOYEES	10	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-
250 EMPLOYEES AND OVER	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COLLINGSWORTH COUNTY	3	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COLORADO COUNTY	19	3	-	-	-	-	-	-	3	-	-	1	-	4	-	-	5	-	1	-	1	-
1 TO 19 EMPLOYEES	15	2	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
COMAL COUNTY	42	8	-	4	1	-	1	1	3	-	-	1	4	3	-	7	3	1	2	-	-	3
1 TO 19 EMPLOYEES	27	5	-	1	-	-	-	1	2	-	-	-	1	4	1	4	3	1	2	-	-	2
20 TO 99 EMPLOYEES	7	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	6	1	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COMANCHE COUNTY	16	3	-	-	2	1	1	1	2	1	-	-	-	3	-	-	2	-	-	-	1	-
1 TO 19 EMPLOYEES	12	1	-	-	1	-	-	-	2	-	-	-	-	2	-	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES	3	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CONCHO COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
COOKE COUNTY	56	6	-	-	4	3	-	-	5	1	-	8	2	4	2	4	10	-	4	-	3	-
1 TO 19 EMPLOYEES	36	5	-	-	1	1	-	-	4	-	-	6	1	3	-	4	6	-	3	-	2	-
20 TO 99 EMPLOYEES	14	1	-	-	3	1	-	-	1	-	-	1	-	1	2	-	3	-	-	-	1	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CORYELL COUNTY	21	3	-	-	2	-	-	-	8	-	-	2	-	1	-	-	2	-	2	-	1	-
1 TO 19 EMPLOYEES	15	3	-	-	1	-	-	-	8	-	-	-	-	1	-	-	1	-	1	-	1	-
20 TO 99 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COTTE COUNTY	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
CRANE COUNTY	4	-	-	-	-	-	-	-	1	1	-	-	-	-	1	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	1	1	-	-	-	-	1	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CROCKETT COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
CROSBY COUNTY	8	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	4	-	1	-	-	-
1 TO 19 EMPLOYEES	7	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	4	-	1	-	-	-
20 TO 99 EMPLOYEES	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CULBERSON COUNTY	3	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-
DALLAM COUNTY	11	4	-	-	-	-	-	-	2	1	-	-	-	1	-	-	2	-	1	-	-	-
1 TO 19 EMPLOYEES	9	2	-	-	-	-	-	-	2	1	-	-	-	1	-	-	2	-	1	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DALLAS COUNTY	3235	163	-	27	275	108	92	90	589	171	15	102	11	114	50	342	404	222	84	71	150	153
1 TO 19 EMPLOYEES	2224	90	-	18	152	82	60	41	485	119	8	66	6	76	32	227	300	149	62	49	129	73
20 TO 99 EMPLOYEES	698	40	-	8	82	20	27	27	87	40	5	28	4	27	16	87	65	39	13	14	17	52
100 TO 249 EMPLOYEES	198	17	-	1	26	5	3	18	11	7	2	5	1	9	-	20	21	19	6	5	4	18
250 EMPLOYEES AND OVER	115	16	-	-	15	1	2	4	6	5	-	3	-	2	2	8	18	15	3	3	-	12
DANSON COUNTY	15	3	-	-	2	-	-	-	3	-	-	-	-	1	-	1	5	-	-	-	-	-
1 TO 19 EMPLOYEES	10	2	-	-	-	-	-	-	3	-	-	-	-	1	-	1	3	-	-	-	-	-
20 TO 99 EMPLOYEES	4	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DEAF SMITH COUNTY	31	12	-	-	3	-	-	-	6	1	-	-	-	1	-	1	5	-	-	-	1	1
1 TO 19 EMPLOYEES	23	8	-	-	2	-	-	-	5	1	-	-	-	1	-	1	3	-	-	-	1	1
20 TO 99 EMPLOYEES	5	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DELTA COUNTY	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DENTON COUNTY	123	7	-	-	3	10	7	1	17	4	-	7	2	8	2	13	18	4	8	1	7	4
1 TO 19 EMPLOYEES	87	5	-	-	1	8	6	1	13	2	-	3	2	5	2	4	15	4	5	1	5	2
20 TO 99 EMPLOYEES	22	1	-	-	-	2	-	-	2	-	-	-	-	2	-	4	2	-	2	-	1	1
100 TO 249 EMPLOYEES	10	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
DE WITT COUNTY	19	4	-	1	1	1	-	-	3	-	-	2	1	3	-	-	2	1	-	-	-	-
1 TO 19 EMPLOYEES	11	1	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	3	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
DICKENS COUNTY	2	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DIMMIT COUNTY	5	2	-	1	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DONLEY COUNTY	5	1	-	-	-	-	-	-	1	-	-	-	1	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
DUVAL COUNTY	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EASTLAND COUNTY	35	3	-	-	4	-	-	-	4	-	-	2	2	4	1	7	3	-	2	-	-	3
1 TO 19 EMPLOYEES	23	2	-	-	2	-	-	-	3	-	-	1	1	2	1	2	3	-	1	-	-	3
20 TO 99 EMPLOYEES	10	1	-	-	1	-	-	-	1	-	-	1	1	2	1	2	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ECTOR COUNTY	220	3	-	1	3	5	3	-	16	16	5	1	1	11	2	29	103	4	5	-	5	7
1 TO 19 EMPLOYEES	153	1	-	1	3	5	3	-	15	8	1	1	1	8	1	15	74	4	3	-	5	4
20 TO 99 EMPLOYEES	54	2	-	-	-	-	-	-	6	6	3	-	-	3	1	13	23	-	2	-	1	1
100 TO 249 EMPLOYEES	11	-	-	-	-	-	-	-	1	1	1	-	-	-	-	1	6	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EDWARDS COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ELLIS COUNTY	93	1	-	-	10	2	9	1	10	3	4	5	2	10	5	9	10	1	3	-	7	1
1 TO 19 EMPLOYEES	52	1	-	-	2	2	4	1	8	3	3	2	1	5	2	4	7	-	3	-	5	1
20 TO 99 EMPLOYEES	24	-	-	-	6	2	2	-	1	-	-	-	-	1	2	4	1	-	-	-	2	-
100 TO 249 EMPLOYEES	10	-	-	-	1	-	-	-	-	-	-	1	-	2	1	1	1	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EL PASO COUNTY	407	70	-	1	61	21	10	4	62	13	4	4	8	25	5	30	24	14	7	9	26	9
1 TO 19 EMPLOYEES	269	4	-	-	26	13	6	2	53	11	2	4	2	15	-	19	18	12	5	6	23	3
20 TO 99 EMPLOYEES	77	1	-	-	11	3	3	2	6	2	-	-	3	7	-	9	5	2	1	2	3	5
100 TO 249 EMPLOYEES	35	8	-	1	10	3	-	-	2	-	-	-	2	3	1	2	1	-	-	-	-	-
250 EMPLOYEES AND OVER	26	2	-	-	14	-	1	-	1	-	-	-	1	-	4	-	1	-	1	1	-	1
ERATH COUNTY	29	3	-	-	2	1	-	-	7	-	1	3	-	2	-	4	2	-	1	1	-	2
1 TO 19 EMPLOYEES	24	3	-	-	1	-	-	-	7	-	1	2	-	1	-	4	2	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FALLS COUNTY	14	2	-	1	1	-	-	-	4	1	-	-	-	1	-	1	-	-	1	-	2	-
1 TO 19 EMPLOYEES	8	1	-	-	-	-	-	-	3	1	-	-	-	-	-	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES	4	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	2	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FANNIN COUNTY	32	2	-	1	2	8	1	-	6	1	-	-	-	1	1	-	7	-	-	-	2	-
1 TO 19 EMPLOYEES	24	1	-	1	1	5	1	-	6	-	-	-	-	1	-	-	6	-	-	-	-	-
20 TO 99 EMPLOYEES	4	1	-	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FAYETTE COUNTY	34	8	-	-	-	1	-	-	5	2	-	1	-	4	-	4	3	-	2	1	2	1
1 TO 19 EMPLOYEES	27	8	-	-	-	1	-	-	5	2	-	-	-	2	-	3	3	-	2	1	1	-
20 TO 99 EMPLOYEES	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHER COUNTY	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLOYD COUNTY	9	1	-	-	-	-	-	-	4	-	-	-	-	-	-	-	3	-	1	-	-	-
1 TO 19 EMPLOYEES	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
FOARD COUNTY	2	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FORT BEND COUNTY	76	5	-	-	1	4	1	1	11	4	-	-	-	6	3	18	14	-	3	1	2	2
1 TO 19 EMPLOYEES	42	3	-	-	1	2	1	1	11	2	-	-	-	2	1	7	9	-	2	1	1	1
20 TO 99 EMPLOYEES	22	1	-	-	3	-	-	-	-	-	-	-	-	4	-	1	5	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	10	1	-	-	-	-	-	-	-	1	-	-	-	-	1	3	3	-	-	-	-	1
FRANKLIN COUNTY	9	1	-	-	2	2	2	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	1	1	1	2	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FREESTONE COUNTY	11	-	-	-	1	2	-	-	3	1	-	-	-	2	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	9	-	-	-	1	2	-	-	3	1	-	-	-	1	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRIO COUNTY	5	-	-	-	-	-	-	-	1	-	1	2	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	1	-	1	2	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GAINES COUNTY	11	1	-	-	1	-	-	-	2	1	-	-	-	2	-	-	2	-	2	-	-	-
1 TO 19 EMPLOYEES	9	1	-	-	1	-	-	-	2	1	-	-	-	1	-	-	2	-	2	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GALVESTON COUNTY	130	16	-	1	3	2	1	1	20	11	7	2	-	11	4	10	14	4	15	4	3	2
1 TO 19 EMPLOYEES	86	11	-	1	3	1	1	-	16	6	3	1	-	5	5	9	12	4	9	3	3	2
20 TO 99 EMPLOYEES	31	4	-	-	-	-	-	-	4	1	1	1	-	6	3	4	2	-	4	1	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	10	1	-	-	-	-	-	-	-	3	3	-	-	-	1	-	-	-	2	-	-	-
GARZA COUNTY	4	1	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	1	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GILLESPIE COUNTY	21	2	-	-	1	1	3	-	3	-	-	-	-	4	-	1	2	-	-	-	4	-
1 TO 19 EMPLOYEES	17	1	-	-	1	1	2	-	3	-	-	-	-	4	-	1	2	-	-	-	3	-
20 TO 99 EMPLOYEES	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	1	1	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GOLIAD COUNTY	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GONZALES COUNTY	26	18	-	-	1	-	-	-	1	-	1	1	-	2	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	18	12	-	-	-	-	-	-	1	-	1	1	-	2	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	6	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRAY COUNTY	37	7	-	-	1	1	-	-	4	2	-	-	-	1	-	3	14	1	-	-	-	3
1 TO 19 EMPLOYEES	25	6	-	-	1	1	-	-	3	-	-	-	-	1	-	3	10	1	-	-	-	1
20 TO 99 EMPLOYEES	7	1	-	-	-	-	-	-	1	1	-	-	-	1	-	-	3	-	-	-	-	1
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
GRAYSON COUNTY	123	20	-	2	12	6	3	6	18	1	1	1	1	3	7	14	15	1	5	2	4	1
1 TO 19 EMPLOYEES	66	9	-	1	3	5	3	2	15	1	1	1	1	2	2	8	10	1	1	1	3	1
20 TO 99 EMPLOYEES	36	6	-	-	2	1	-	4	3	-	-	-	-	-	3	5	2	-	2	-	-	-
100 TO 249 EMPLOYEES	10	1	-	-	2	1	-	-	-	-	-	-	-	-	-	-	2	-	2	-	-	-
250 EMPLOYEES AND OVER	11	4	-	1	1	-	-	-	-	-	-	-	-	1	1	-	1	1	1	-	-	-
GREGG COUNTY	181	10	-	1	10	10	1	3	17	10	2	2	-	10	6	24	46	9	9	5	3	3
1 TO 19 EMPLOYEES	114	4	-	4	9	1	1	2	15	7	-	1	-	8	4	9	31	6	4	5	3	3
20 TO 99 EMPLOYEES	43	5	-	2	1	-	2	1	1	2	1	1	-	1	1	1	12	3	2	1	-	-
100 TO 249 EMPLOYEES	14	-	-	3	-	-	-	-	1	1	-	-	-	-	-	-	1	-	2	-	-	-
250 EMPLOYEES AND OVER	10	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	-	-
GRIMES COUNTY	21	3	-	-	3	1	1	-	1	1	-	1	-	1	1	3	3	3	1	-	1	-
1 TO 19 EMPLOYEES	12	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	7	1	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CA0's
GUADALUPE COUNTY	44	7	-	1	1	-	2	-	6	1	-	2	-	3	-	8	6	1	4	1	1	-
1 TO 19 EMPLOYEES	32	4	-	-	-	-	1	-	5	1	-	-	-	2	-	7	5	-	4	1	1	-
20 TO 99 EMPLOYEES	6	2	-	1	-	-	1	-	1	-	-	1	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HALE COUNTY	54	10	-	4	-	1	1	-	9	4	1	-	1	2	-	3	18	-	-	1	-	-
1 TO 19 EMPLOYEES	41	7	-	3	-	-	-	-	8	3	1	-	1	2	-	1	14	-	-	-	-	-
20 TO 99 EMPLOYEES	10	1	-	-	-	-	-	-	1	1	-	-	-	-	-	2	4	-	-	1	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HALL COUNTY	4	-	-	-	-	-	-	-	1	1	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-
HAMILTON COUNTY	14	5	-	1	1	-	-	-	2	1	-	-	-	1	-	1	1	-	-	-	1	-
1 TO 19 EMPLOYEES	11	4	-	-	-	-	-	-	2	1	-	-	-	1	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	3	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HANSFORD COUNTY	3	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HARDEMAN COUNTY	11	4	-	1	1	-	-	-	2	-	-	-	-	1	-	1	-	-	-	-	1	-
1 TO 19 EMPLOYEES	8	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HARDIN COUNTY	30	1	-	1	1	14	-	-	3	-	1	-	-	2	-	1	6	-	-	-	1	-
1 TO 19 EMPLOYEES	20	1	-	1	1	8	-	-	3	-	-	-	-	-	-	-	4	-	-	-	-	-
20 TO 99 EMPLOYEES	9	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HARRIS COUNTY	3707	138	-	16	75	94	84	45	489	229	32	151	5	163	86	603	823	164	93	108	149	160
1 TO 19 EMPLOYEES	2493	78	-	13	66	68	53	21	417	123	16	98	4	94	48	362	587	114	64	73	126	68
20 TO 99 EMPLOYEES	873	32	-	2	7	20	27	13	61	69	8	41	1	54	29	168	176	35	22	31	17	60
100 TO 249 EMPLOYEES	203	15	-	1	1	4	4	3	8	20	1	8	-	10	6	50	33	8	5	4	15	12
250 EMPLOYEES AND OVER	138	13	-	-	1	2	-	3	3	17	7	4	-	5	3	23	27	7	2	-	1	20
HARRISON COUNTY	66	5	-	1	1	9	1	1	5	3	-	-	-	7	6	10	9	2	2	-	2	2
1 TO 19 EMPLOYEES	37	3	-	1	-	6	-	1	4	-	-	-	-	3	3	6	5	2	1	-	1	1
20 TO 99 EMPLOYEES	17	2	-	-	-	2	1	-	1	2	-	-	-	2	2	1	4	-	-	-	-	-
100 TO 249 EMPLOYEES	7	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	1	-	-	-	-	1	-	-	-	-	1	2	-	-	-	-	-	-
HARTLEY COUNTY	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HASKELL COUNTY	4	-	-	-	-	-	-	-	2	-	-	-	-	1	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HAYS COUNTY	24	4	-	1	-	1	1	-	6	1	-	1	-	5	-	-	-	3	-	-	1	-
1 TO 19 EMPLOYEES	17	3	-	-	-	-	-	-	6	1	-	1	-	4	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	1	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HEMPHILL COUNTY	4	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HENDERSON COUNTY	50	5	-	-	7	5	2	-	6	2	-	1	-	6	-	3	6	3	3	1	-	-
1 TO 19 EMPLOYEES	36	4	-	-	3	4	2	-	5	2	-	1	-	4	-	1	-	2	2	1	-	-
20 TO 99 EMPLOYEES	9	1	-	-	2	1	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HIDALGO COUNTY	169	43	-	-	10	4	4	3	24	2	2	3	1	10	2	9	24	2	8	2	12	4
1 TO 19 EMPLOYEES	124	28	-	-	3	3	4	-	21	2	2	1	-	5	2	8	21	1	8	1	11	3
20 TO 99 EMPLOYEES	26	7	-	-	2	1	-	2	2	-	-	-	-	4	-	1	2	1	-	-	1	-
100 TO 249 EMPLOYEES	14	8	-	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977-Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
HILL COUNTY. 1 TO 19 EMPLOYEES.	37	6	-	2	8	-	1	-	5	1	-	1	-	8	1	-	2	1	1	-	-	-
20 TO 99 EMPLOYEES.	26	6	-	2	4	-	1	-	5	1	-	1	-	5	-	-	2	-	1	-	-	-
100 TO 249 EMPLOYEES.	9	-	-	-	4	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
HOCKLEY COUNTY. 1 TO 19 EMPLOYEES.	17	3	-	-	-	-	-	-	6	-	-	-	-	-	-	1	7	-	-	-	-	-
20 TO 99 EMPLOYEES.	16	2	-	-	-	-	-	-	6	-	-	-	-	-	-	1	7	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HOOD COUNTY. 1 TO 19 EMPLOYEES.	11	-	-	-	2	-	-	-	3	-	-	-	-	4	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES.	9	-	-	-	-	-	-	-	3	-	-	-	-	4	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HOPKINS COUNTY. 1 TO 19 EMPLOYEES.	34	10	-	-	3	3	-	-	4	3	-	1	-	4	-	3	1	-	1	-	1	-
20 TO 99 EMPLOYEES.	21	5	-	-	2	1	-	-	3	3	-	1	-	3	-	1	1	-	1	-	-	-
100 TO 249 EMPLOYEES.	10	5	-	-	-	1	-	-	1	-	-	1	-	1	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
HOUSTON COUNTY. 1 TO 19 EMPLOYEES.	41	-	-	-	4	22	2	-	4	-	-	1	-	1	-	1	6	-	-	-	-	-
20 TO 99 EMPLOYEES.	32	-	-	-	2	19	1	-	3	-	-	1	-	1	-	2	6	-	-	-	-	-
100 TO 249 EMPLOYEES.	6	-	-	-	2	2	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HOWARD COUNTY. 1 TO 19 EMPLOYEES.	32	1	-	-	2	3	-	-	6	4	1	1	-	2	1	2	6	1	-	1	1	-
20 TO 99 EMPLOYEES.	20	1	-	-	-	1	-	-	5	2	-	-	-	1	-	2	6	-	-	-	-	-
100 TO 249 EMPLOYEES.	7	-	-	-	1	1	-	-	1	1	-	-	-	1	-	-	-	-	-	1	1	-
250 EMPLOYEES AND OVER.	1	-	-	-	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
HUNT COUNTY. 1 TO 19 EMPLOYEES.	61	8	-	-	9	5	3	1	9	2	-	3	2	6	-	1	3	2	3	-	2	2
20 TO 99 EMPLOYEES.	37	4	-	-	2	2	2	2	6	2	-	2	2	6	-	1	2	1	1	-	2	2
100 TO 249 EMPLOYEES.	9	3	-	-	4	3	1	1	1	-	-	-	-	-	-	-	-	1	1	-	-	-
250 EMPLOYEES AND OVER.	6	1	-	-	2	-	-	-	2	-	-	1	-	-	-	-	1	-	1	-	-	-
HUTCHINSON COUNTY. 1 TO 19 EMPLOYEES.	29	-	-	-	-	-	-	-	5	5	3	-	-	1	-	1	7	-	-	-	7	4
20 TO 99 EMPLOYEES.	15	-	-	-	-	-	-	-	4	1	-	-	-	1	-	1	5	-	-	-	-	2
100 TO 249 EMPLOYEES.	7	-	-	-	-	-	-	-	1	1	2	2	-	1	-	-	2	-	-	-	-	2
250 EMPLOYEES AND OVER.	5	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
JACK COUNTY. 1 TO 19 EMPLOYEES.	5	-	-	-	2	-	-	-	1	-	-	-	-	1	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	3	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JACKSON COUNTY. 1 TO 19 EMPLOYEES.	5	-	-	-	-	-	-	-	2	-	-	-	-	2	-	-	-	1	-	-	-	-
20 TO 99 EMPLOYEES.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JASPER COUNTY. 1 TO 19 EMPLOYEES.	60	6	-	-	-	39	-	2	5	-	-	-	-	3	-	1	3	-	-	-	-	-
20 TO 99 EMPLOYEES.	48	4	-	-	-	30	-	-	1	-	-	-	-	3	-	1	3	-	-	-	-	-
100 TO 249 EMPLOYEES.	4	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	5	2	-	-	-	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JEFFERSON COUNTY. 1 TO 19 EMPLOYEES.	240	18	-	1	7	12	4	4	27	19	13	7	1	14	4	41	30	4	20	1	8	9
20 TO 99 EMPLOYEES.	156	10	-	1	7	10	2	2	23	4	2	6	1	9	2	24	22	3	15	-	8	7
100 TO 249 EMPLOYEES.	43	5	-	-	-	2	-	-	2	6	2	1	-	4	-	9	7	1	2	-	1	1
250 EMPLOYEES AND OVER.	24	1	-	-	-	-	-	-	1	7	7	-	-	1	1	6	1	1	2	-	-	-
JIM HOGG COUNTY. 1 TO 19 EMPLOYEES.	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	3	2	-	-	-	-	-	-	-	-	-	-	-	-
JIM WELLS COUNTY. 1 TO 19 EMPLOYEES.	24	5	-	-	-	1	-	-	3	2	-	-	-	1	-	1	7	-	-	-	3	3
20 TO 99 EMPLOYEES.	18	3	-	-	-	1	-	-	1	-	-	-	-	1	-	1	5	-	-	-	-	-
100 TO 249 EMPLOYEES.	6	4	-	-	-	7	2	2	9	2	-	2	-	11	1	11	14	4	9	1	6	1
250 EMPLOYEES AND OVER.	101	2	-	3	7	7	5	1	8	1	-	2	-	8	1	10	10	2	6	1	5	1
JOHNSON COUNTY. 1 TO 19 EMPLOYEES.	70	3	-	2	2	3	2	1	1	1	-	-	-	2	-	1	2	2	1	1	1	1
20 TO 99 EMPLOYEES.	20	1	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	6	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

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See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 -Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
LIMESTONE COUNTY	18	1	1	2	2	-	1	-	3	-	-	-	-	2	1	2	2	1	1	-	-	-
1 TO 19 EMPLOYEES	17	1	1	2	2	-	1	-	2	-	-	-	-	2	1	2	2	1	1	-	-	-
20 TO 99 EMPLOYEES	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LIPSCOMB COUNTY	4	-	-	-	-	-	-	-	3	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	4	-	-	-	-	-	-	-	3	-	-	-	-	1	-	-	-	-	-	-	-	-
LIVE OAK COUNTY	4	1	-	-	-	-	-	-	1	-	1	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	1	-	-	-	-	-	-	1	-	1	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LLANO COUNTY	10	1	-	-	-	-	-	-	2	-	-	-	-	6	-	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	9	1	-	-	-	-	-	-	2	-	-	-	-	5	-	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
LUBBOCK COUNTY	290	29	-	5	13	12	11	2	40	12	3	4	2	18	7	36	66	5	6	3	11	5
1 TO 19 EMPLOYEES	222	12	-	4	9	10	11	2	38	12	3	1	2	13	5	29	47	4	4	2	10	4
20 TO 99 EMPLOYEES	44	8	-	1	3	2	-	-	1	-	-	-	-	5	1	7	12	-	-	-	1	1
100 TO 249 EMPLOYEES	15	7	-	-	1	-	-	-	-	-	-	-	-	-	-	-	4	-	1	-	-	-
250 EMPLOYEES AND OVER	9	2	-	-	-	-	-	-	1	-	-	1	-	-	-	-	3	1	1	1	-	-
LYNN COUNTY	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-
MC CULLOCH COUNTY	9	2	-	2	-	-	-	-	1	-	-	-	-	3	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	7	2	-	1	-	-	-	-	1	-	-	-	-	3	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
MC LENNAN COUNTY	261	29	-	1	21	20	9	9	41	4	1	11	3	17	2	26	26	6	9	8	12	6
1 TO 19 EMPLOYEES	149	12	-	1	7	8	5	2	34	4	1	4	2	8	2	17	18	3	3	6	9	4
20 TO 99 EMPLOYEES	68	11	-	-	6	6	2	5	4	-	-	2	-	7	-	5	5	2	4	1	3	1
100 TO 249 EMPLOYEES	31	4	-	-	6	4	2	2	2	-	-	2	-	1	-	3	3	-	1	1	-	-
250 EMPLOYEES AND OVER	13	2	-	-	2	2	-	-	2	-	-	1	-	1	-	1	-	1	1	-	-	-
MC MULLEN COUNTY	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
MADISON COUNTY	7	-	-	2	-	-	-	-	4	-	-	-	-	-	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	6	-	-	1	-	-	-	-	4	-	-	-	-	-	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARION COUNTY	16	1	-	-	-	10	1	-	1	-	-	-	-	-	-	-	-	-	-	-	3	-
1 TO 19 EMPLOYEES	14	1	-	-	-	9	1	-	1	-	-	-	-	-	-	-	-	-	-	-	3	-
20 TO 99 EMPLOYEES	2	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	2	1	-	-	-	-
MARTIN COUNTY	4	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MASON COUNTY	8	2	-	-	-	-	-	-	1	-	-	-	-	3	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	8	2	-	-	-	-	-	-	1	-	-	-	-	3	-	-	-	-	1	-	-	-
MATAGORDA COUNTY	28	10	-	-	-	-	-	-	4	3	2	-	-	5	-	-	3	-	2	2	1	-
1 TO 19 EMPLOYEES	22	7	-	-	-	-	-	-	3	2	-	-	-	4	-	-	3	-	-	-	-	-
20 TO 99 EMPLOYEES	5	3	-	-	-	-	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAVERICK COUNTY	14	4	-	-	5	-	-	-	2	-	-	-	-	-	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	9	4	-	-	1	-	-	-	2	-	-	-	-	-	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MEDINA COUNTY	19	-	-	-	-	-	-	-	5	1	1	2	-	4	-	2	2	-	1	1	-	-
1 TO 19 EMPLOYEES	15	-	-	-	-	-	-	-	5	1	1	1	-	2	-	2	2	-	-	1	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HENARD COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
MIDLAND COUNTY	94	7	-	-	2	3	3	-	18	7	1	6	-	5	-	11	17	2	2	-	-	5
1 TO 19 EMPLOYEES	70	5	-	-	1	3	3	-	13	7	1	4	-	3	-	9	12	1	2	-	-	4
20 TO 99 EMPLOYEES	19	2	-	-	-	-	-	-	4	-	-	2	-	2	-	2	3	1	-	-	-	2
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	2	-	-	-	1
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MILAM COUNTY	21	3	-	-	1	2	2	-	3	-	-	-	-	6	1	1	2	-	-	-	-	-
1 TO 19 EMPLOYEES	16	3	-	-	-	-	-	-	3	-	-	-	-	6	-	1	2	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MILLS COUNTY	8	-	-	-	1	-	-	-	1	1	-	-	-	1	-	1	2	-	-	-	1	-
1 TO 19 EMPLOYEES	5	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
MITCHELL COUNTY	8	-	-	-	1	-	-	-	3	-	-	1	-	-	-	-	3	-	-	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MONTAGUE COUNTY	23	1	-	-	3	-	-	-	5	-	-	-	2	1	-	2	2	-	5	-	2	-
1 TO 19 EMPLOYEES	17	1	-	-	-	-	-	-	5	-	-	-	-	1	-	2	1	-	5	-	1	-
20 TO 99 EMPLOYEES	5	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MONTGOMERY COUNTY	89	2	-	-	-	24	-	1	8	3	-	2	-	5	1	7	24	3	3	1	3	2
1 TO 19 EMPLOYEES	59	2	-	-	-	16	-	1	6	1	-	1	-	3	1	4	19	1	3	1	2	-
20 TO 99 EMPLOYEES	26	2	-	-	-	8	-	-	2	1	-	-	-	2	-	2	4	2	-	-	1	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOORE COUNTY	15	2	-	-	-	-	1	-	2	4	1	-	-	2	-	-	3	-	-	-	-	-
1 TO 19 EMPLOYEES	10	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MORRIS COUNTY	31	2	-	-	1	10	-	-	4	2	1	-	-	3	1	2	2	1	1	-	-	1
1 TO 19 EMPLOYEES	21	2	-	-	-	9	-	-	4	1	1	-	-	3	-	2	-	-	-	-	-	-
20 TO 99 EMPLOYEES	9	-	-	-	1	1	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOTLEY COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NACOGDOCHES COUNTY	67	7	-	-	1	34	1	-	5	3	-	-	-	4	-	3	1	2	2	-	3	1
1 TO 19 EMPLOYEES	41	2	-	-	-	26	-	-	3	1	-	-	-	3	-	1	1	1	1	-	1	1
20 TO 99 EMPLOYEES	16	2	-	-	-	7	-	-	1	2	-	-	-	1	-	1	-	1	-	-	-	-
100 TO 249 EMPLOYEES	5	1	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NAVARRO COUNTY	38	4	-	-	4	-	2	1	7	3	-	4	1	5	1	1	3	-	2	-	-	-
1 TO 19 EMPLOYEES	17	1	-	-	1	-	1	1	5	1	-	3	1	2	-	1	2	-	-	-	-	-
20 TO 99 EMPLOYEES	15	2	-	-	2	-	1	1	2	1	-	1	-	2	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEWTON COUNTY	38	-	-	-	-	35	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	35	-	-	-	-	32	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NOLAN COUNTY	24	6	-	-	2	-	-	-	3	-	-	1	-	5	-	1	1	-	2	1	1	1
1 TO 19 EMPLOYEES	11	3	-	-	-	-	-	-	2	-	-	-	-	5	-	-	-	-	1	1	-	-
20 TO 99 EMPLOYEES	7	1	-	-	1	-	-	-	1	-	-	1	-	3	-	1	-	-	1	1	-	-
100 TO 249 EMPLOYEES	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NUECES COUNTY	221	28	-	-	5	3	10	1	38	10	6	1	1	23	5	24	33	5	10	4	10	4
1 TO 19 EMPLOYEES	155	13	-	-	3	1	9	1	33	5	1	1	1	16	2	18	29	2	7	4	7	3
20 TO 99 EMPLOYEES	43	8	-	-	1	2	1	1	4	2	1	1	-	6	2	6	3	2	2	1	3	1
100 TO 249 EMPLOYEES	9	4	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	14	3	-	-	1	-	-	-	1	3	4	-	-	1	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20---food and kindred products; 21---tobacco manufactures; 22---textile mill products; 23---apparel and other textile products; 24---lumber and wood products; 25---furniture and fixtures; 26---paper and allied products; 27---printing and publishing; 28---chemicals and allied products; 29---petroleum and coal products; 30---rubber and miscellaneous plastics products; 31---leather and leather products; 32---stone, clay, and glass products; 33---primary metal products; 34---fabricated metal products; 35---machinery, except electrical; 36---electric and electronic equipment; 37---transportation equipment; 38---instruments and related products; 39---miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
OGHLTREE COUNTY	12	3	-	-	-	-	-	-	1	-	-	1	-	-	-	2	4	-	-	-	-	-	-
1 TO 19 EMPLOYEES	10	1	-	-	-	-	-	-	1	-	-	1	-	-	-	2	4	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ORANGE COUNTY	74	2	-	-	3	-	3	9	8	1	1	4	-	4	1	10	9	4	11	-	4	1	
1 TO 19 EMPLOYEES	47	1	-	-	2	-	-	8	1	1	1	1	-	2	1	7	9	4	6	-	3	1	
20 TO 99 EMPLOYEES	15	1	-	-	1	-	-	1	3	2	2	2	-	2	2	2	-	-	2	-	1	-	
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	8	-	-	-	-	-	-	-	-	4	-	-	-	-	-	1	-	-	2	-	-	-	
PALO PINTO COUNTY	40	1	-	-	5	1	-	2	5	2	-	3	-	5	1	3	6	3	-	1	2	-	
1 TO 19 EMPLOYEES	25	1	-	-	3	1	-	-	5	2	-	2	-	2	1	2	4	-	-	-	2	-	
20 TO 99 EMPLOYEES	9	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	1	-	-	-	-	-	
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	
PANOLA COUNTY	21	-	-	-	-	8	-	-	2	-	-	1	-	2	-	2	4	-	2	-	-	-	
1 TO 19 EMPLOYEES	17	-	-	-	-	5	-	-	2	-	-	-	-	-	-	-	4	-	-	-	-	-	
20 TO 99 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
PARKER COUNTY	53	7	-	-	2	2	2	4	3	3	-	2	1	8	1	5	9	2	4	-	-	-	
1 TO 19 EMPLOYEES	41	4	-	-	1	2	2	-	3	3	-	3	1	6	1	4	6	2	4	-	-	-	
20 TO 99 EMPLOYEES	10	3	-	-	1	-	-	-	1	-	-	2	-	2	-	1	2	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
PARMER COUNTY	15	7	-	-	2	-	-	-	3	1	-	-	-	-	-	-	2	-	-	-	-	-	
1 TO 19 EMPLOYEES	11	4	-	-	1	-	-	-	3	1	-	-	-	-	-	-	2	-	-	-	-	-	
20 TO 99 EMPLOYEES	3	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PECOS COUNTY	10	3	-	-	1	-	-	-	3	1	-	-	-	-	-	-	2	-	-	-	-	-	
1 TO 19 EMPLOYEES	8	2	-	-	-	-	-	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
POLK COUNTY	46	1	-	-	-	33	-	-	2	1	-	-	-	1	-	1	6	-	-	-	1	-	
1 TO 19 EMPLOYEES	36	1	-	-	-	26	-	-	1	1	-	-	-	1	-	1	5	-	-	-	1	-	
20 TO 99 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
POTTER COUNTY	180	28	-	1	8	11	6	2	30	7	1	5	4	14	5	9	26	2	7	2	6	6	
1 TO 19 EMPLOYEES	129	13	-	1	5	10	5	1	24	5	-	4	4	8	4	7	19	2	6	2	5	4	
20 TO 99 EMPLOYEES	39	11	-	1	-	1	1	1	5	2	-	1	-	6	-	2	6	-	1	-	1	1	
100 TO 249 EMPLOYEES	7	3	-	1	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	
250 EMPLOYEES AND OVER	5	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PRESIDIO COUNTY	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RAINS COUNTY	7	-	-	2	1	-	-	-	1	-	-	1	-	1	-	1	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	4	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RANDALL COUNTY	31	4	-	1	1	1	-	-	8	2	1	-	-	-	-	5	5	1	-	-	2	1	
1 TO 19 EMPLOYEES	22	1	-	-	1	-	-	-	8	1	1	-	-	-	-	4	3	1	-	-	2	1	
20 TO 99 EMPLOYEES	7	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	
100 TO 249 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
REAGAN COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
REAL COUNTY	2	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RED RIVER COUNTY	24	3	-	1	8	1	-	1	1	-	-	-	-	1	-	4	1	-	2	-	2	-	
1 TO 19 EMPLOYEES	14	3	-	1	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	
20 TO 99 EMPLOYEES	6	-	-	1	1	1	-	-	-	-	-	-	-	-	-	3	-	-	-	-	1	-	
100 TO 249 EMPLOYEES	4	-	-	1	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
REEVES COUNTY	15	2	-	1	-	-	-	-	3	-	-	-	-	1	1	-	6	-	-	-	1	-	
1 TO 19 EMPLOYEES	11	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	5	-	-	-	-	-	
20 TO 99 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
REFUGIO COUNTY	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
ROBERTSON COUNTY	11	1	-	-	-	2	-	-	2	-	-	-	-	1	1	2	-	-	2	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROCKWALL COUNTY	17	-	-	1	2	1	-	-	2	-	-	1	1	1	3	3	-	-	1	-	1	-
1 TO 19 EMPLOYEES	13	-	-	1	1	1	-	-	2	-	-	1	1	2	2	2	-	-	1	-	1	-
20 TO 99 EMPLOYEES	3	-	-	1	1	-	-	-	-	-	-	1	-	-	1	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RUNNELS COUNTY	13	2	-	-	1	-	-	-	3	-	-	-	1	1	-	1	1	1	2	-	-	-
1 TO 19 EMPLOYEES	13	2	-	-	1	-	-	-	3	-	-	-	1	1	-	1	1	1	2	-	-	-
20 TO 99 EMPLOYEES	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RUSK COUNTY	53	3	-	1	1	19	3	-	6	2	-	4	-	3	-	2	5	-	2	-	2	-
1 TO 19 EMPLOYEES	36	-	-	-	-	15	-	-	5	2	-	-	-	2	-	3	-	-	2	-	2	-
20 TO 99 EMPLOYEES	11	-	-	-	-	2	-	-	1	-	-	4	-	-	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SABINE COUNTY	19	-	-	-	-	18	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	17	-	-	-	-	16	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAN AUGUSTINE COUNTY	35	1	-	-	-	28	-	-	2	-	-	-	-	1	-	-	1	-	2	-	-	-
1 TO 19 EMPLOYEES	32	1	-	-	-	26	-	-	2	-	-	-	-	1	-	-	1	-	1	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAN JACINTO COUNTY	11	-	-	-	-	7	-	-	1	-	-	-	-	-	-	-	2	-	-	1	-	-
1 TO 19 EMPLOYEES	11	-	-	-	-	7	-	-	1	-	-	-	-	-	-	-	2	-	-	1	-	-
SAN PATRICIO COUNTY	27	1	-	-	-	-	-	-	5	4	-	2	-	2	1	1	2	4	4	-	1	-
1 TO 19 EMPLOYEES	20	-	-	-	-	-	-	-	1	2	-	-	-	1	-	1	1	4	3	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	-	-	-	1	1	-	-	-	1	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
SAN SABA COUNTY	6	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	1	-	-	-
1 TO 19 EMPLOYEES	6	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	1	-	-	-
SCHLEICHER COUNTY	3	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
SCURRY COUNTY	15	1	-	-	2	-	-	-	5	-	1	-	-	2	1	1	1	-	-	-	1	-
1 TO 19 EMPLOYEES	12	-	-	-	1	-	-	-	5	-	1	-	-	2	2	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHACKELFORD COUNTY	7	1	-	-	-	-	-	-	2	-	-	-	-	-	-	3	1	-	-	-	-	-
1 TO 19 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-
SHELBY COUNTY	53	7	-	-	-	30	-	-	2	2	-	-	-	2	-	-	4	1	-	-	1	4
1 TO 19 EMPLOYEES	43	6	-	-	-	22	-	-	2	2	-	-	-	2	-	-	4	1	-	-	1	3
20 TO 99 EMPLOYEES	7	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHERMAN COUNTY	4	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
SMITH COUNTY	171	17	-	2	10	14	7	4	18	5	5	9	-	14	5	21	18	4	3	6	6	3
1 TO 19 EMPLOYEES	120	8	-	2	6	12	4	1	16	3	4	3	-	10	4	15	13	4	3	5	4	3
20 TO 99 EMPLOYEES	33	7	-	-	1	1	2	1	1	2	1	5	-	3	1	5	2	-	1	1	2	-
100 TO 249 EMPLOYEES	11	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOMERVELL COUNTY	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class ¹	All es- tablish- ment	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
STARR COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
STEPHENS COUNTY	18	1	-	-	2	3	1	-	2	-	-	-	-	1	-	1	4	-	2	-	-	1
1 TO 19 EMPLOYEES	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	-	1	2	-	-	-	-	-	-	-	-	-	1	2	-	1	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUTTON COUNTY	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
SWISHER COUNTY	14	2	-	-	1	-	-	-	3	1	-	-	-	1	1	-	5	-	-	-	-	-
1 TO 19 EMPLOYEES	12	2	-	-	-	-	-	-	3	1	-	-	-	1	1	-	4	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
TARRANT COUNTY	1649	93	-	6	60	82	70	37	219	64	9	92	19	72	35	187	293	61	104	40	69	37
1 TO 19 EMPLOYEES	1104	42	-	4	38	58	45	17	175	43	5	51	12	51	23	118	209	43	64	31	55	20
20 TO 99 EMPLOYEES	394	31	2	17	16	22	13	36	16	1	2	27	6	18	9	54	65	9	25	6	8	13
100 TO 249 EMPLOYEES	105	16	-	4	6	2	7	6	6	4	2	9	4	9	3	14	9	6	9	1	4	3
250 EMPLOYEES AND OVER	46	4	-	-	1	2	1	-	2	1	1	5	1	-	3	1	10	3	6	2	2	1
TAYLOR COUNTY	124	21	-	-	6	2	2	2	17	6	8	4	2	6	-	8	15	4	5	5	9	2
1 TO 19 EMPLOYEES	85	10	-	3	2	2	2	1	13	5	6	3	2	5	-	4	12	3	4	3	7	2
20 TO 99 EMPLOYEES	25	6	-	-	1	-	-	1	3	1	-	1	-	1	-	3	3	-	1	1	1	2
100 TO 249 EMPLOYEES	6	3	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	8	2	-	-	1	-	-	-	1	-	-	-	-	-	-	1	-	-	-	1	1	-
TERRELL COUNTY	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
TERRY COUNTY	11	-	-	-	2	-	-	-	4	-	-	-	-	-	-	3	2	-	-	-	-	-
1 TO 19 EMPLOYEES	8	-	-	-	-	-	-	-	4	-	-	-	-	-	-	2	2	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
THROCKMORTON COUNTY	6	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	1	-	1	1	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	1	-	1	1	-	-
TITUS COUNTY	37	12	-	-	1	4	1	-	3	-	1	-	-	6	1	1	5	-	1	1	-	-
1 TO 19 EMPLOYEES	25	7	-	-	2	2	1	-	3	-	-	-	-	5	1	1	4	-	1	1	-	-
20 TO 99 EMPLOYEES	9	3	-	-	1	2	1	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOM GREEN COUNTY	100	22	-	1	3	6	4	1	16	2	-	2	3	5	2	5	10	2	7	3	5	1
1 TO 19 EMPLOYEES	73	16	-	1	2	5	4	1	14	2	-	2	1	4	-	2	7	1	6	2	3	-
20 TO 99 EMPLOYEES	13	2	-	-	-	-	-	-	2	-	-	-	-	1	1	2	3	1	-	-	2	1
100 TO 249 EMPLOYEES	10	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-
250 EMPLOYEES AND OVER	4	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
TRAVIS COUNTY	426	38	-	1	9	25	18	3	119	19	2	16	3	24	4	29	33	24	7	21	23	8
1 TO 19 EMPLOYEES	319	22	-	1	6	20	15	2	100	13	2	14	3	18	3	20	25	14	4	13	19	5
20 TO 99 EMPLOYEES	84	12	-	-	2	5	1	1	17	6	-	2	-	4	1	9	6	7	2	5	3	1
100 TO 249 EMPLOYEES	13	4	-	-	1	-	-	-	1	-	-	-	-	2	-	-	-	3	1	-	-	-
250 EMPLOYEES AND OVER	10	-	-	-	-	-	2	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-
TRINITY COUNTY	21	-	-	-	2	18	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	16	-	-	-	1	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	1	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
TYLER COUNTY	49	-	-	-	-	41	-	-	1	-	-	-	-	1	1	2	3	-	-	-	-	-
1 TO 19 EMPLOYEES	41	-	-	-	-	35	-	-	1	-	-	-	-	1	1	1	3	-	-	-	-	-
20 TO 99 EMPLOYEES	7	-	-	-	-	6	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UPSHUR COUNTY	23	1	-	-	2	8	-	-	4	-	-	-	1	3	-	-	3	1	-	-	-	-
1 TO 19 EMPLOYEES	20	1	-	-	2	7	-	-	4	-	-	-	1	2	-	-	3	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-
UPTON COUNTY	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-
UVALDE COUNTY	15	2	-	1	1	1	-	-	4	1	-	-	1	1	-	1	-	-	-	-	2	-
1 TO 19 EMPLOYEES	14	2	-	1	1	1	-	-	4	1	-	-	1	1	-	1	-	-	-	-	2	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
VAL VERDE COUNTY	16	5	-	-	3	-	-	-	3	-	-	-	-	2	1	1	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	12	4	-	-	1	-	-	-	2	-	-	-	-	2	1	1	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VAN ZANDT COUNTY	26	1	-	-	8	1	-	-	5	1	-	-	-	2	-	4	2	-	1	-	1	-	
1 TO 19 EMPLOYEES	18	1	-	-	8	1	-	-	5	1	-	-	-	2	-	3	2	-	1	-	1	-	
20 TO 99 EMPLOYEES	5	-	-	-	3	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	3	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VICTORIA COUNTY	43	9	-	-	-	1	-	-	7	4	-	1	-	8	-	2	7	1	1	-	2	-	
1 TO 19 EMPLOYEES	30	7	-	-	-	1	-	-	6	3	-	1	-	4	-	1	3	1	1	-	2	-	
20 TO 99 EMPLOYEES	7	2	-	-	-	-	-	-	1	-	-	-	-	3	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WALKER COUNTY	42	1	-	-	2	20	-	-	2	2	-	-	-	5	-	1	4	3	1	-	1	-	
1 TO 19 EMPLOYEES	29	1	-	-	1	15	-	-	1	2	-	-	-	3	-	1	4	2	-	-	-	-	
20 TO 99 EMPLOYEES	9	-	-	-	2	1	-	-	1	-	-	-	-	2	-	-	-	1	1	-	1	-	
100 TO 249 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WALLER COUNTY	14	2	-	-	1	1	-	-	2	2	-	-	-	1	-	-	4	-	-	1	-	-	
1 TO 19 EMPLOYEES	14	2	-	-	1	1	-	-	2	2	-	-	-	1	-	-	4	-	-	1	-	-	
WARD COUNTY	13	3	-	-	-	-	-	-	3	2	1	-	-	-	-	-	4	-	-	-	-	-	
1 TO 19 EMPLOYEES	12	2	-	-	-	-	-	-	3	2	1	-	-	-	-	-	4	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WASHINGTON COUNTY	30	7	-	1	2	2	4	-	4	1	-	1	-	2	-	1	1	1	1	-	2	-	
1 TO 19 EMPLOYEES	15	5	-	-	1	1	-	-	4	1	-	-	-	1	-	1	1	1	1	-	1	-	
20 TO 99 EMPLOYEES	12	1	-	-	2	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WEBB COUNTY	60	9	-	1	5	2	1	-	11	-	-	-	5	3	1	2	9	4	1	2	3	1	
1 TO 19 EMPLOYEES	43	6	-	1	2	1	-	-	10	-	-	-	3	2	1	1	8	4	1	1	2	1	
20 TO 99 EMPLOYEES	13	2	-	-	2	-	-	-	1	-	-	-	2	1	1	1	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WHARTON COUNTY	39	5	-	-	3	2	2	-	8	-	-	1	-	3	3	2	6	1	-	-	1	2	
1 TO 19 EMPLOYEES	31	3	-	-	2	1	2	-	-	-	-	1	-	3	3	2	5	1	-	-	1	2	
20 TO 99 EMPLOYEES	6	2	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WHEELER COUNTY	9	-	-	-	-	-	-	-	2	1	2	-	-	2	-	-	1	-	-	-	1	1	
1 TO 19 EMPLOYEES	7	-	-	-	-	-	-	-	2	1	-	-	-	2	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WICHITA COUNTY	168	17	-	-	8	8	4	1	13	6	5	4	6	14	3	19	41	5	3	1	7	3	
1 TO 19 EMPLOYEES	116	12	-	-	4	5	3	-	10	6	5	1	6	12	1	12	26	3	2	-	5	3	
20 TO 99 EMPLOYEES	33	4	-	-	2	1	1	-	2	-	-	2	-	1	6	11	11	3	1	-	2	2	
100 TO 249 EMPLOYEES	13	1	-	-	1	2	-	-	1	-	-	1	-	2	1	1	3	-	-	1	-	-	
250 EMPLOYEES AND OVER	6	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	
WILBARGER COUNTY	15	3	-	-	3	-	-	-	2	1	-	-	-	1	-	1	4	-	-	-	-	-	
1 TO 19 EMPLOYEES	11	2	-	-	2	-	-	-	1	-	-	-	-	1	-	1	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	3	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WILLACY COUNTY	11	4	-	-	1	-	-	-	1	1	-	1	1	-	-	1	-	-	1	-	-	-	
1 TO 19 EMPLOYEES	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WILLIAMSON COUNTY	77	3	-	1	9	5	6	1	9	2	-	7	-	7	2	4	10	6	3	-	2	-	
1 TO 19 EMPLOYEES	56	3	-	-	5	5	1	1	7	2	-	4	-	7	2	3	9	4	3	-	1	1	
20 TO 99 EMPLOYEES	16	-	-	-	4	5	1	1	2	-	-	3	-	-	-	1	1	-	-	-	-	-	
100 TO 249 EMPLOYEES	4	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
WILSON COUNTY.	8	2	-	-	-	1	-	-	2	1	-	-	-	1	-	1	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	6	2	-	-	-	1	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WINKLER COUNTY.	5	-	-	-	1	-	-	-	3	-	-	-	-	1	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WISE COUNTY.	31	2	-	-	3	-	2	-	5	-	3	-	-	3	-	-	8	1	2	1	-	1	1
1 TO 19 EMPLOYEES.	25	2	-	-	2	-	1	-	5	-	3	-	-	2	-	-	7	-	1	1	-	-	-
20 TO 99 EMPLOYEES.	5	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	1	-	1	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WOOD COUNTY.	33	4	-	-	6	3	-	-	4	2	1	-	-	4	1	2	4	-	2	-	-	-	-
1 TO 19 EMPLOYEES.	26	2	-	-	3	3	-	-	4	1	1	-	-	4	1	2	4	-	2	-	-	-	-
20 TO 99 EMPLOYEES.	6	2	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YOAKUM COUNTY.	4	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	2	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
YOUNG COUNTY.	30	2	-	1	2	2	-	-	6	-	1	1	-	5	-	1	4	1	2	-	1	1	1
1 TO 19 EMPLOYEES.	21	2	-	-	-	-	-	-	6	-	-	-	-	5	-	-	4	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	3	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES.	4	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-
ZAPATA COUNTY.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
1 TO 19 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAVALA COUNTY.	8	3	-	-	-	-	-	-	1	-	-	-	-	-	-	2	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	7	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

¹Only those counties and size classes that include data for manufacturing establishments are shown.



Utah

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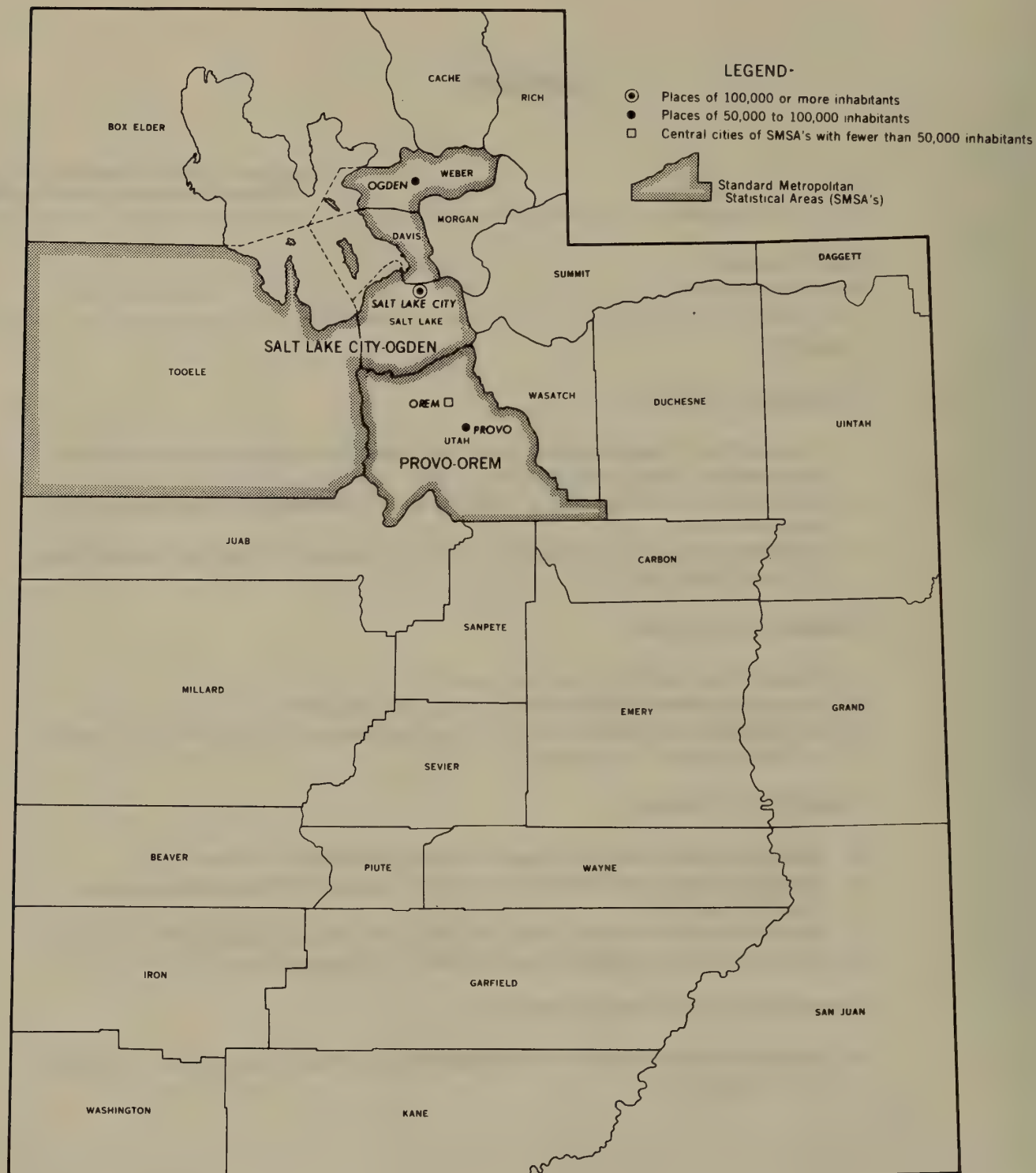
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UTAH



SUMMARY OF FINDINGS

In 1977, 70.2 thousand persons were employed in Utah's manufacturing establishments. This figure represented an increase of 24 percent from the 1972 figure of 56.6 thousand workers.

The total value added by manufacture for the State amounted to \$1,974 million in 1977, an increase of approximately 85 percent from the 1972 figure of \$1,069 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were machinery, except electrical; primary metal industries; food and kindred products; and apparel and other textile products. They accounted for approximately 45 percent of the State's 1977 employment. The order has shifted from 1972 when industry groups food and kindred products; transportation equipment; machinery, except electrical; and apparel and other textile products accounted for approximately 42 percent of the State's employment.

The most important counties in the State ranked by employment were Salt Lake, Utah, Weber, and Cache. They accounted for approximately 84 percent of the State's 1977 manufacturing employment. The order has shifted from 1972 when Salt Lake, Utah, Weber, and Box Elder accounted for approximately 85 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 6 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Utah:						
1977.....	70.2	867.2	67.9	834.8	2.1	32.4
1972.....	56.6	486.2	53.7	452.9	2.9	33.3
1967.....	47.0	314.9	46.4	310.2	.6	4.7
1963.....	53.5	328.2	52.6	320.2	.9	3.1
STANDARD METROPOLITAN STATISTICAL AREAS						
Provo-Orem:						
1977.....	10.2	161.4	10.2	161.4	(Z)	(Z)
1972.....	8.6	86.2	8.6	86.2	(Z)	(Z)
1967.....	7.9	59.2	7.9	59.2	-	-
1963.....	6.9	48.9	6.9	48.9	-	-
Salt Lake City-Ogden:						
1977.....	49.1	580.9	47.0	549.2	2.1	31.7
1972.....	39.2	332.9	36.5	301.0	2.7	31.9
1967.....	32.4	213.6	(D)	(D)	(D)	(D)
1963.....	36.4	215.5	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers								Comparative indexes and U.S. employment				
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	Index of State em- ploy- ment change (1977= 100)	United States			
														Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)		
	UTAH																
1977 CENSUS.	1 748	494	70.2	867.2	48.8	92.3	522.3	1 974.0	3 172.9	5 092.8	393.6	.36	100	100	19 596.9		
1976 ASM....	(NA)	(NA)	71.2	779.4	47.9	89.3	463.5	1 708.7	2 964.9	4 640.6	141.9	.38	101	96	18 753.0		
1975 ASM....	(NA)	(NA)	65.1	668.9	45.6	85.2	404.4	1 378.8	2 768.7	4 131.2	131.6	.36	93	94	18 302.2		
1974 ASM....	(NA)	(NA)	66.0	614.9	46.8	88.0	377.5	1 482.7	2 651.2	4 053.8	144.8	.33	94	102	19 844.8		
1973 ASM....	(NA)	(NA)	61.7	538.6	43.0	81.3	325.1	1 238.0	1 892.1	3 124.8	70.8	.31	88	102	19 897.9		
1972 CENSUS.	1 358	430	56.6	486.2	38.8	73.7	286.9	1 068.7	1 584.9	2 632.0	67.9	.30	81	98	19 028.7		
1971 ASM....	(NA)	(NA)	49.5	391.4	33.5	63.3	223.0	864.2	1 388.1	2 257.9	71.9	.27	70	94	18 363.1		
1970 ASM....	(NA)	(NA)	51.1	376.3	34.8	66.5	216.7	989.9	1 465.9	2 428.7	58.3	.27	73	99	19 217.2		
1969 ASM....	(NA)	(NA)	50.0	353.5	34.8	67.9	212.5	1 054.6	1 071.0	2 122.6	50.7	.25	71	103	20 035.5		
1968 ASM....	(NA)	(NA)	47.8	331.3	32.8	63.9	195.1	826.6	990.5	1 819.0	39.0	.24	68	100	19 527.6		
1967 CENSUS.	1 124	353	47.0	314.9	31.7	62.3	182.7	777.9	911.2	1 672.8	59.2	.24	67	99	19 323.2		
1966 ASM....	(NA)	(NA)	47.2	311.2	31.7	63.5	184.4	699.4	1 038.0	1 736.6	53.1	.25	67	98	19 024.5		
1965 ASM....	(NA)	(NA)	47.7	305.1	31.1	61.7	176.4	693.2	995.8	1 691.7	25.1	.26	68	92	18 010.2		
1964 ASM....	(NA)	(NA)	51.5	318.1	33.2	66.5	182.1	668.0	960.0	1 610.8	23.0	.30	73	89	17 268.5		
1963 CENSUS.	1 110	336	53.5	328.2	33.4	67.0	182.0	710.6	(NA)	(NA)	29.6	.32	76	87	16 958.4		
	SALT LAKE CITY-OGDEN SMSA																
1977 CENSUS.	1 213	368	49.1	580.9	32.7	61.7	324.6	1 391.5	2 298.5	3 650.8	342.3	.25	100	100	19 596.9		
1976 ASM....	(NA)	(NA)	50.7	526.7	32.0	58.5	286.7	1 171.8	2 167.2	3 312.1	88.7	.27	103	96	18 753.0		
1975 ASM....	(NA)	(NA)	45.6	456.7	30.7	57.1	261.4	1 010.8	2 013.5	3 005.7	88.0	.25	93	94	18 302.2		
1974 ASM....	(NA)	(NA)	45.6	413.5	30.8	58.0	238.1	1 030.2	2 041.9	3 003.5	74.5	.23	93	102	19 844.8		
1973 ASM....	(NA)	(NA)	42.6	368.4	28.0	53.2	207.4	866.8	1 453.9	2 296.3	49.9	.21	87	102	19 897.9		
1972 CENSUS.	955	331	39.2	332.9	25.3	48.5	180.7	684.9	1 201.1	1 876.1	45.1	.21	80	98	19 028.7		

(NA) Not available.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
UTAH									
1977 CENSUS.....	12 348	69	1 893	5.66	62	79	28 108	44	21.39
1976 ASM.....	10 947	67	1 864	5.19	64	81	23 999	46	19.13
1975 ASM.....	10 275	70	1 868	4.75	67	83	21 180	49	16.18
1974 ASM.....	9 317	71	1 880	4.29	65	81	22 465	41	16.85
1973 ASM.....	8 729	70	1 891	4.00	61	78	20 065	44	15.23
1972 CENSUS.....	8 590	69	1 899	3.89	60	79	18 882	45	14.50
1971 ASM.....	7 907	68	1 890	3.52	61	79	17 459	45	13.65
1970 ASM.....	7 364	68	1 911	3.26	60	76	19 372	38	14.89
1969 ASM.....	7 070	70	1 951	3.13	50	67	21 092	34	15.53
1968 ASM.....	6 931	69	1 948	3.05	54	73	17 293	40	12.94
1967 CENSUS.....	6 700	67	1 965	2.93	54	73	16 551	40	12.49
1966 ASM.....	6 593	67	2 003	2.90	60	78	14 818	44	11.01
1965 ASM.....	6 396	65	1 984	2.86	59	77	14 532	44	11.24
1964 ASM.....	6 177	64	2 003	2.74	60	79	12 971	48	10.05
1963 CENSUS.....	6 135	62	2 006	2.72	(NA)	(NA)	13 282	46	10.61
SALT LAKE CITY-OGDEN SMSA									
1977 CENSUS.....	11 830	67	1 889	5.26	63	79	28 340	42	22.54
1976 ASM.....	10 389	63	1 828	4.90	65	81	23 112	45	20.03
1975 ASM.....	10 015	67	1 860	4.58	67	82	22 167	45	17.70
1974 ASM.....	9 068	68	1 883	4.11	68	82	22 592	40	17.76
1973 ASM.....	8 648	66	1 900	3.90	63	79	20 347	43	16.29
1972 CENSUS.....	8 492	65	1 917	3.73	64	82	17 472	49	14.12

Note: For qualifications to data, see footnotes on table 2a.

(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹ -----	number ----	1 748	1 358
With 1 to 19 employees -----	do -----	1 254	828
With 20 to 99 employees -----	do -----	347	311
With 100 employees or more -----	do -----	147	119
All employees, average for year ¹ -----	1,000 -----	70.2	56.6
Payroll for year, all employees ¹ -----	mil. dollars --	867.2	486.2
Production workers:			
Average for year -----	1,000 -----	48.8	38.8
March -----	do -----	46.8	37.4
May -----	do -----	48.3	38.3
August -----	do -----	49.9	39.6
November -----	do -----	49.8	39.8
Hours -----	millions -----	92.3	73.7
January to March -----	do -----	22.3	17.7
April to June -----	do -----	23.2	18.3
July to September -----	do -----	23.3	18.6
October to December -----	do -----	23.5	19.0
Wages -----	mil. dollars --	522.3	286.9
Cost of materials, etc. ² -----	do -----	3 172.9	1 584.9
Materials, parts, containers, etc., consumed -----	do -----	2 826.3	1 430.9
Resales -----	do -----	186.9	78.1
Fuels consumed -----	do -----	68.4	20.1
Purchased electric energy -----	do -----	40.0	15.5
Contract work -----	do -----	51.3	40.3
Value of shipments, including resales ² -----	do -----	5 092.8	2 632.0
Value of resales -----	do -----	223.3	93.8
Value added by manufacture -----	do -----	1 974.0	1 068.7
Manufacturers' inventories:			
Beginning of year -----	do -----	627.5	303.4
Finished products -----	do -----	178.1	83.8
Work in process -----	do -----	227.7	120.7
Materials, supplies, fuel, etc. -----	do -----	221.6	99.0
End of year -----	do -----	701.7	315.7
Finished products -----	do -----	228.8	88.6
Work in process -----	do -----	230.0	123.7
Materials, supplies, fuel, etc. -----	do -----	243.0	103.5
Capital expenditures for plant and equipment -----	do -----	404.7	72.4
New capital expenditures -----	do -----	393.6	67.9
New buildings and other structures -----	do -----	55.3	15.5
New machinery and equipment -----	do -----	338.3	52.4
Used capital expenditures -----	do -----	11.1	4.5

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Including central administrative offices and auxiliaries (for definition, see appendix B).

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	22.5	8
Beginning of year.....	1,433.9	1	Buildings and other structures.....	(10.9)	15
New capital expenditures.....	387.7	3	Machinery and equipment.....	11.6	9
Used capital expenditures.....	(10.0)	17			
Retirements.....	(40.7)	19	Depreciation charges during 1977:		
End of year.....	1,790.8	1	Total.....	89.3	3
Buildings and other structures:			Buildings and other structures.....	14.6	7
Beginning of year.....	334.9	4	Machinery and equipment.....	74.7	3
New capital expenditures.....	(58.0)	17			
Used capital expenditures.....	1.7	14	Supplemental labor costs:		
Retirements.....	(13.2)	41	Total.....	149.2	2
End of year.....	381.5	2	Legal costs.....	61.1	2
Machinery and equipment:			Voluntary costs.....	88.1	2
Beginning of year.....	1,098.9	2			
New capital expenditures.....	329.7	2	Purchased services:		
Automobiles, trucks, etc., for highway use...	6.4	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	1.2	(NA)	Buildings and other structures.....	(6.2)	22
All other.....	306.7	(NA)	Response coverage ratio (percent).....	60	(X)
New machinery and equipment, n.s.k.....	15.3	(NA)	Machinery.....	37.0	14
Used capital expenditures.....	8.3	20	Response coverage ratio (percent).....	59	(X)
Retirements.....	27.6	11	Cost of purchased communication services.....	(10.4)	21
End of year.....	1,409.3	1	Response coverage ratio (percent).....	64	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area		1977										1972		
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
E ¹														
Utah -----	-	1 748	494	70.2	867.2	46.8	92.3	522.3	1 974.0	3 172.9	5 092.8	393.6	56.6	1 068.7
STANDARD METROPOLITAN STATISTICAL AREAS														
Provo-Orem -----	-	198	49	10.2	161.4	8.1	15.4	121.4	308.5	423.6	724.1	27.4	8.6	225.7
Salt Lake City-Ogden -----	-	1 213	368	49.1	580.9	32.7	61.7	324.6	1 391.5	2 298.5	3 650.8	342.3	39.2	684.9
COUNTIES														
Beaver -----	E2	8	1	0.1	0.5	0.1	0.1	0.5	1.1	0.9	2.0	(Z)	0.1	0.5
Box Elder -----	-	37	7	3.5	55.7	1.8	4.1	24.8	97.3	85.8	179.7	(D)	3.2	75.6
Cache -----	-	75	23	3.6	33.8	3.0	5.4	25.1	84.6	245.3	326.2	6.8	2.2	37.9
Carbon -----	E5	15	3	0.3	2.6	0.2	0.4	1.8	5.0	4.3	9.2	0.3	0.2	2.2
Davis -----	-	105	30	3.2	39.0	2.3	4.3	23.3	116.1	342.0	456.4	(D)	2.0	48.7
Duchesne -----	-	16	2	0.1	1.5	0.1	0.2	1.2	4.9	20.1	25.0	(D)	0.1	0.5
Emery -----	E4	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Garfield -----	-	9	3	0.2	1.7	0.2	0.3	1.4	4.2	2.4	6.3	(D)	(D)	(D)
Grand -----	E5	8	-	(Z)	0.2	(Z)	(Z)	0.1	0.6	0.3	0.9	(Z)	0.1	0.1
Iron -----	-	22	4	0.4	4.1	0.4	0.7	3.1	10.2	14.5	24.6	0.8	0.3	4.0
Juab -----	-	9	3	0.4	3.6	0.3	0.6	2.9	7.8	9.1	17.3	0.1	0.1	1.6
Kane -----	E5	4	1	0.1	0.3	0.1	0.1	0.3	0.5	0.2	0.7	(Z)	(D)	(D)
Millard -----	E1	9	2	0.2	1.4	0.2	0.3	1.1	5.8	3.8	9.6	(D)	0.1	0.6
Morgan -----	-	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Piute -----	-	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Rich -----	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Salt Lake -----	-	955	283	39.2	464.6	25.5	47.6	250.0	1 125.5	1 696.4	2 792.7	282.8	32.5	553.7
San Juan -----	E4	7	5	0.1	1.3	0.1	0.2	1.0	2.8	3.3	6.4	0.2	(D)	(D)
Sanpete -----	-	18	4	0.3	2.5	0.3	0.5	1.9	6.7	21.5	28.0	0.2	0.7	7.8
Sevier -----	E1	23	7	0.4	4.7	0.4	0.7	3.3	10.7	12.8	24.0	0.7	0.4	6.3
Summit -----	E4	10	1	0.1	0.6	0.1	0.1	0.5	1.7	1.3	2.9	0.1	0.1	0.8
Tooele -----	-	11	6	1.0	13.7	0.8	1.9	11.0	9.5	36.6	43.5	(D)	0.2	2.3
Uintah -----	E3	16	4	0.2	2.0	0.2	0.3	1.2	4.0	3.0	7.0	0.4	0.3	4.1
Utah -----	-	198	49	10.2	161.4	8.1	15.4	121.4	308.5	423.6	724.1	27.4	8.6	225.7
Wasatch -----	E1	18	1	0.1	0.9	0.1	0.1	0.6	3.7	3.4	7.1	0.2	0.1	0.6
Washington -----	-	22	3	0.4	3.6	0.3	0.6	2.5	8.6	9.5	17.7	1.8	0.3	2.7
Wayne -----	E0	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Weber -----	E1	142	49	5.8	63.6	4.1	7.9	40.3	140.4	223.4	358.3	8.7	4.4	80.2
CITIES														
Brigham City -----	E4	24	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Clearfield -----	-	28	11	1.3	13.6	1.0	2.0	9.8	58.1	53.8	105.6	(D)	1.2	25.7
Logan -----	-	45	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Murray -----	-	50	18	2.5	23.0	2.0	3.5	14.2	39.1	59.5	97.1	2.6	1.3	20.8
Ogden -----	-	103	41	4.8	52.2	3.4	6.5	33.0	116.9	203.5	317.1	6.8	3.7	64.2
Orem -----	E5	30	4	0.9	8.2	0.7	1.4	5.5	15.6	11.5	26.8	1.8	0.7	8.2
Pleasant Grove -----	-	14	5	0.5	4.2	0.4	0.7	2.9	9.0	11.9	21.1	0.6	0.5	5.5
Provo -----	E1	71	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Salt Lake City -----	-	476	152	22.3	267.3	13.5	25.5	135.6	683.5	824.5	1 488.5	43.8	22.8	362.1
Sandy City -----	-	12	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Salt Lake -----	E1	96	26	2.0	20.1	1.6	2.8	12.9	43.3	50.0	93.1	2.1	2.0	33.5
West Jordan -----	E1	16	7	0.8	7.0	0.7	1.6	5.0	9.2	35.5	48.5	(D)	0.6	11.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	All Industries -----	-	1 748	494	70.2	867.2	48.8	92.3	522.3	1 974.0	3 172.9	5 092.8	393.6	56.6	1 068.7
20	Food and kindred products -----	-	201	68	8.8	71.0	4.8	9.0	43.8	198.0	568.8	758.0	(D)	7.0	142.9
201	Meat products -----	E1	38	12	0.9	8.2	0.7	1.3	6.4	22.5	114.9	137.9	1.5	1.2	35.6
2011	Meat packing plants -----	-	32	8	0.7	7.1	0.6	1.1	5.7	21.5	105.9	127.3	(D)	0.8	33.0
202	Dairy products -----	-	35	12	1.9	18.8	1.3	2.5	13.0	45.0	225.7	267.0	7.3	1.9	40.1
2022	Cheese, natural and processed -----	-	10	4	0.9	8.4	0.8	1.6	7.3	19.2	116.2	131.6	(D)	CC	(D)
2024	Ice cream and frozen desserts -----	-	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.3
2026	Fluid milk -----	-	18	5	0.8	8.9	0.4	0.8	4.8	22.7	99.4	122.1	(D)	1.1	24.5
203	Preserved fruits and vegetables -----	E1	14	3	0.5	4.7	0.4	0.8	3.5	15.6	18.2	33.8	(D)	0.3	3.4
2038	Frozen specialties -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
204	Grain mill products -----	E1	30	8	0.6	7.7	0.4	0.8	4.8	27.1	99.7	126.8	(D)	0.5	18.6
2041	Flour and other grain mill products -----	E1	13	3	0.3	4.7	0.2	0.5	3.3	15.6	61.5	76.9	(D)	BB	(D)
2048	Prepared feeds, n.e.c. -----	E3	12	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
205	Bakery products -----	-	19	10	1.0	10.9	0.7	1.2	6.6	27.9	23.5	51.3	(D)	1.0	13.5
2051	Bread, cake, and related products -----	-	16	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
206	Sugar and confectionery products -----	E2	18	5	0.5	5.3	0.4	0.9	3.7	13.3	17.7	28.2	0.5	0.8	11.1
2063	Beet sugar -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2065	Confectionery products -----	E5	16	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
208	Beverages -----	E1	23	12	0.8	9.8	0.4	0.7	2.8	30.4	44.5	74.6	3.7	0.7	11.5
2086	Bottled and canned soft drinks -----	E1	23	12	0.8	9.8	0.4	0.7	2.8	30.4	44.5	74.6	3.7	0.7	11.5
209	Miscellaneous foods and kindred products -----	E1	18	4	0.6	4.3	0.4	0.6	2.2	11.7	11.9	23.5	0.9	0.5	6.9
2099	Food preparations, n.e.c. -----	E1	13	4	0.5	4.1	0.4	0.6	2.1	11.3	11.5	22.6	(D)	0.4	6.5
22	Textile mill products --	-	8	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
225	Knitting mills -----	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2254	Knit underwear mills -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
23	Apparel and other textile products -----	-	101	51	6.0	36.4	5.3	9.0	29.3	65.1	67.4	130.6	1.7	FF	(D)
232	Men's and boys' furnishings --	E1	21	15	1.6	8.7	1.5	2.5	7.1	15.5	12.0	26.9	(D)	EE	(D)
2321	Men's and boys' shirts and nightwear -----	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2327	Men's and boys' separate trousers -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2329	Men's and boys' clothing, n.e.c. -----	E1	16	11	1.1	5.7	1.0	1.7	4.9	10.7	7.7	17.8	(D)	CC	(D)
233	Women's and misses' outerwear -----	-	30	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	12.1
2331	Women's and misses' blouses and waists -----	-	12	12	1.8	11.1	1.7	2.9	9.5	17.4	27.3	44.3	0.3	CC	(D)
2337	Women's and misses' suits and coats -----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c. -----	-	6	3	0.2	1.4	0.2	0.3	1.2	2.3	2.4	4.5	0.1	AA	(D)
234	Women's and children's undergarments -----	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2341	Women's and children's underwear -----	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
236	Children's outerwear -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2369	Children's outerwear, n.e.c. --	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	-	41	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	7.2
2391	Curtains and draperies -----	E1	18	3	0.2	1.1	0.2	0.2	0.7	1.6	2.2	3.7	0.1	0.2	1.3
2399	Fabricated textile products, n.e.c. -----	-	6	4	0.4	2.8	0.4	0.6	2.4	7.6	10.0	17.1	(D)	CC	(D)
24	Lumber and wood products -----	E1	146	31	3.0	26.9	2.4	4.7	20.1	54.8	68.5	122.3	5.4	2.1	25.6
242	Sawmills and planing mills --	E1	40	7	0.4	3.4	0.4	0.7	2.8	9.0	7.9	17.0	0.9	0.6	8.5
2421	Sawmills and planing mills, general -----	E1	35	7	0.4	3.3	0.4	0.7	2.7	8.8	7.6	16.5	0.9	CC	(D)
243	Millwork, plywood, and structural members -----	E2	65	16	1.1	9.9	0.9	1.6	7.1	19.8	19.4	38.8	1.3	0.7	7.3
2431	Millwork -----	-	17	4	0.3	2.2	0.2	0.4	1.6	3.1	5.8	8.6	0.1	0.3	2.5
2434	Wood kitchen cabinets -----	E4	39	10	0.7	6.6	0.6	1.0	4.7	11.0	9.3	20.3	0.9	0.4	4.2
245	Wood buildings and mobile homes -----	-	13	6	1.3	12.2	0.9	2.0	9.1	22.0	38.7	59.9	(D)	CC	(D)
2452	Prefabricated wood buildings -----	-	12	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972		
			E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
				Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
25	Furniture and fixtures -	E1	67	20	1.3	12.3	1.0	1.9	8.0	24.9	22.3	46.6	3.3	1.1	11.8	
251	Household furniture -	E2	38	10	0.6	5.4	0.5	0.9	3.6	10.8	9.5	20.4	(D)	0.7	7.0	
2512	Upholstered household furniture -	-	11	4	0.3	2.7	0.3	0.5	1.8	5.1	3.1	8.3	(D)	0.4	3.2	
2515	Mattresses and bedsprings -	E3	6	4	0.2	1.8	0.1	0.3	1.2	3.5	4.6	8.1	(D)	AA	(D)	
254	Partitions and fixtures -	E1	20	7	0.4	5.3	0.3	0.7	3.4	9.9	8.3	18.0	(D)	0.2	2.2	
2541	Wood partitions and fixtures -	E1	17	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
259	Miscellaneous furniture and fixtures -	-	7	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
2591	Drapery hardware and blinds and shades -	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
26	Paper and allied products -	-	19	9	0.8	9.2	0.7	1.3	6.7	18.6	30.4	49.5	1.5	BB	(D)	
264	Miscellaneous converted paper products -	-	12	5	0.6	5.9	0.5	0.9	4.5	11.8	20.4	32.9	0.7	AA	(D)	
2643	Bags, except textile bags -	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
265	Paperboard containers and boxes -	-	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
27	Printing and publishing -	-	249	37	4.6	49.7	2.8	4.9	27.3	111.3	60.4	171.5	6.7	3.7	48.0	
2711	Newspapers -	-	45	11	1.8	19.1	0.6	1.1	7.0	44.6	16.2	60.7	2.7	1.1	20.2	
273	Books -	E1	21	2	0.2	2.1	0.1	0.2	1.3	4.7	5.6	10.3	0.4	(NA)	(NA)	
2732	Book printing -	-	10	2	0.2	1.8	0.1	0.2	1.2	3.5	5.1	8.6	0.4	(NA)	(NA)	
2741	Miscellaneous publishing -	-	10	2	0.2	1.8	0.1	0.1	0.5	6.4	1.9	8.3	(D)	(NA)	(NA)	
275	Commercial printing -	E2	129	12	1.2	12.9	0.9	1.6	8.8	21.2	18.9	39.8	1.2	1.6	6.6	
2751	Commercial printing, letterpress -	E7	65	1	0.2	1.9	0.2	0.2	1.3	3.8	2.5	6.3	0.2	EE	(D)	
2752	Commercial printing, lithographic -	E1	56	11	0.9	10.6	0.7	1.3	7.2	16.6	16.1	32.3	0.9	0.4	5.9	
2761	Manifold business forms -	-	5	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	12.5	
278	Blankbooks and bookbinding -	-	9	3	0.6	6.3	0.5	1.0	4.3	10.0	7.4	17.4	0.5	AA	(D)	
2782	Blankbooks and looseleaf binders -	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
279	Printing trade services -	E3	22	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
28	Chemicals and allied products -	E2	62	14	1.8	21.1	1.3	2.5	13.1	62.8	65.3	126.0	18.2	1.4	30.0	
281	Industrial inorganic chemicals -	E4	11	2	0.2	2.8	0.1	0.3	1.9	17.8	11.9	29.7	12.0	0.2	6.0	
283	Drugs -	-	8	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
2834	Pharmaceutical preparations -	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
2851	Paints and allied products -	-	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
287	Agricultural chemicals -	E2	5	1	0.2	2.4	0.1	0.2	1.6	3.9	13.9	17.8	(D)	(NA)	(NA)	
289	Miscellaneous chemical products -	E1	23	6	0.4	5.3	0.4	0.7	4.0	13.0	16.5	29.4	1.9	0.3	6.2	
2899	Chemical preparations, n.e.c. -	E2	15	4	0.3	3.4	0.2	0.4	2.4	8.9	5.5	14.6	(D)	AA	(D)	
29	Petroleum and coal products -	-	16	7	0.8	15.4	0.7	1.3	11.3	100.1	564.8	667.4	6.0	0.8	45.7	
2911	Petroleum refining -	-	7	7	0.8	14.7	0.6	1.2	10.8	98.1	560.8	661.5	(D)	0.6	42.0	
30	Rubber and miscellaneous plastics products -	E2	53	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
3041	Rubber and plastics hose and belting -	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
3079	Miscellaneous plastics products -	E2	48	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
32	Stone, clay, and glass products -	E1	119	45	3.9	47.3	3.1	6.2	38.1	121.3	114.7	236.7	14.6	2.6	59.0	
3241	Cement, hydraulic -	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
325	Structural clay products -	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
3251	Brick and structural clay tile -	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
327	Concrete, gypsum, and plaster products -	E1	83	33	2.6	32.0	2.1	4.2	25.0	75.8	81.0	156.6	9.9	1.6	35.1	
3271	Concrete block and brick -	-	11	5	0.3	2.7	0.2	0.4	1.7	5.5	6.8	12.2	0.6	AA	(D)	
3272	Concrete products, n.e.c. -	-	30	5	0.6	7.4	0.5	1.1	5.9	18.0	17.8	36.3	1.5	0.5	9.7	
3273	Ready-mixed concrete -	E2	36	18	1.4	18.0	1.1	2.2	14.2	40.6	44.4	84.5	6.0	0.7	18.1	
3275	Gypsum products -	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
329	Miscellaneous nonmetallic mineral products -	-	14	5	0.6	6.5	0.5	0.9	4.4	15.5	11.5	28.0	1.1	0.4	6.3	
3293	Gaskets, packing, and sealing devices -	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972		
			E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital ex- penditures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
				Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
33	Primary metal industries -----	-	35	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
331	Blast furnace and basic steel products -----	-	4	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
3312	Blast furnaces and steel mills -----	-	3	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)	
332	Iron and steel foundries -----	-	9	6	0.9	14.5	0.8	1.4	10.6	33.5	19.4	52.2	2.6	CC	(D)	
3321	Gray iron foundries -----	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)	
3325	Steel foundries, n.e.c. -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
333	Primary nonferrous metals ----	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
3331	Primary copper -----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
3339	Primary nonferrous metals, n.e.c. -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
34	Fabricated metal products -----	E1	164	55	4.4	54.5	3.3	5.2	35.3	130.5	124.0	249.7	(D)	3.5	69.3	
343	Plumbing and heating, except electric -----	E2	11	3	0.2	1.8	0.2	0.3	1.2	4.7	5.6	10.4	0.6	(NA)	(NA)	
3433	Heating equipment, except electric -----	E3	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
344	Fabricated structural metal products -----	E1	90	39	3.0	38.0	2.3	4.2	24.6	84.0	82.7	164.8	(D)	2.5	57.1	
3441	Fabricated structural metal --	E1	31	18	1.5	18.2	1.2	2.3	12.9	30.9	39.4	59.9	2.4	1.1	24.7	
3442	Metal doors, sash, and trim --	-	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
3443	Fabricated plate work (boiler shops) -----	-	15	10	0.8	11.3	0.6	1.0	6.7	32.8	23.9	55.7	0.8	0.6	17.5	
349	Miscellaneous fabricated metal products -----	-	33	7	0.7	9.8	0.5	1.1	5.9	29.0	17.5	43.3	4.6	0.3	6.2	
3494	Valves and pipe fittings -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
3498	Fabricated pipe and fittings --	-	6	2	0.3	3.6	0.2	0.3	2.3	13.1	7.7	18.7	(D)	(NA)	(NA)	
3499	Fabricated metal products, n.e.c. -----	E3	20	3	0.2	2.1	0.2	0.3	1.4	3.7	3.9	7.5	0.2	(NA)	(NA)	
35	Machinery, except electrical -----	-	193	48	8.9	116.0	5.3	10.5	57.2	312.0	255.7	555.7	23.3	5.8	115.9	
353	Construction and related machinery -----	-	20	9	2.3	28.8	1.4	2.5	14.4	72.3	68.4	137.7	5.7	EE	(D)	
3531	Construction machinery -----	E1	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
3532	Mining machinery -----	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
3534	Elevators and moving stairways -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
3537	Industrial trucks and tractors --	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
355	Special industry machinery ----	E1	10	4	0.3	3.3	0.2	0.3	1.8	6.2	3.1	9.4	(D)	AA	(D)	
3551	Food products machinery ----	-	6	2	0.2	2.4	0.1	0.2	1.2	3.5	2.2	5.7	(D)	(NA)	(NA)	
356	General industrial machinery ---	-	20	7	1.9	28.5	0.9	1.8	9.6	50.5	61.7	120.1	2.5	1.6	28.7	
3561	Pumps and pumping equipment -----	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)	
3567	Industrial furnaces and ovens -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
3569	General industrial machinery, n.e.c. -----	-	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
357	Office and computing machines -----	-	8	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
3573	Electronic computing equipment -----	-	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)	
3574	Calculating and accounting machines -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
358	Refrigeration and service machinery -----	-	12	5	0.3	4.2	0.3	0.5	2.8	13.0	9.3	21.3	0.4	0.8	14.0	
3585	Refrigeration and heating equipment -----	-	5	4	0.3	3.6	0.2	0.4	2.4	11.9	8.3	19.3	(D)	BB	(D)	
359	Miscellaneous machinery, except electrical -----	E2	98	16	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	5.8	
3599	Machinery, except electrical, n.e.c. -----	E2	98	16	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	5.8	
36	Electric and electronic equipment --	-	73	20	4.5	53.8	3.1	5.0	30.3	136.1	66.7	192.9	(D)	3.3	52.8	
361	Electric distributing equipment --	-	8	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
3613	Switchgear and switchboard apparatus -----	-	6	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
363	Household appliances -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
3639	Household appliances, n.e.c. -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	
366	Communication equipment ----	-	15	8	2.4	33.9	1.6	3.0	17.8	99.3	33.1	125.6	(D)	2.2	30.6	
3662	Radio and TV communication equipment --	-	15	8	2.4	33.9	1.6	3.0	17.8	99.3	33.1	125.6	(D)	EE	(D)	
367	Electronic components and accessories -----	-	26	4	1.2	11.9	1.0	1.9	8.3	20.3	9.8	29.6	(D)	CC	(D)	
3671	Electron tubes, all types ----	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
3674	Semiconductors and related devices -----	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)	

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
36	Electric and electronic equipment—Con.														
369	Miscellaneous electrical equipment and supplies -----	-	8	2	0.3	2.7	0.2	0.3	0.7	4.9	2.5	6.2	(D)	(NA)	(NA)
3693	X-ray, electromedical, and electrotherapeutic apparatus -	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
37	Transportation equipment-----	-	57	16	5.9	97.5	2.9	6.1	39.8	195.9	173.5	365.8	(D)	6.1	151.0
371	Motor vehicles and equipment -	-	27	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3711	Motor vehicles and car bodies -----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3714	Motor vehicle parts and accessories -----	-	17	5	0.5	5.0	0.4	0.8	4.0	32.6	19.2	48.9	(D)	0.2	12.9
3715	Truck trailers -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
376	Guided missiles, space vehicles, parts -----	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3761	Guided missiles and space vehicles -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3764	Space propulsion units and parts-----	-	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
379	Miscellaneous transportation equipment -----	E2	15	4	0.3	2.6	0.3	0.4	2.0	3.4	6.9	10.8	(D)	CC	(D)
3792	Travel trailers and campers --	E1	9	3	0.3	1.9	0.2	0.4	1.4	2.3	5.9	8.8	(D)	0.4	3.5
38	Instruments and related products-----	-	53	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	4.5
384	Medical instruments and supplies -----	-	25	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3841	Surgical and medical instruments -----	-	4	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3842	Surgical appliances and supplies -----	E1	15	3	0.3	2.5	0.2	0.4	1.2	4.4	3.1	7.3	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries-----	-	81	14	2.1	16.0	1.6	2.8	11.0	26.8	39.9	66.9	0.7	1.4	18.4
391	Jewelry, silverware, and plated ware -----	-	9	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3911	Jewelry, precious metal -----	-	8	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3931	Musical instruments -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
394	Toys and sporting goods -----	-	20	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3949	Sporting and athletic goods, n.e.c. -----	-	17	3	0.2	1.8	0.2	0.3	1.2	4.1	2.8	6.8	0.2	(NA)	(NA)
399	Miscellaneous manufactures --	E1	41	7	0.5	4.9	0.4	0.8	3.2	7.8	6.0	13.7	(D)	0.6	8.9
3993	Signs and advertising displays -----	E1	15	3	0.3	3.1	0.2	0.4	1.9	4.6	2.6	7.1	(D)	0.4	6.7
3999	Manufacturing industries, n.e.c. -----	E2	24	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
--	Administrative and auxiliary-----	-	48	22	2.1	32.4	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			E1	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Provo-Orem SMSA -----	-	198	49	10.2	161.4	8.1	15.4	121.4	308.5	423.6	724.1	27.4	8.6	225.7
	Salt Lake City-Ogden SMSA -	-	1 213	368	49.1	580.9	32.7	61.7	324.6	1 391.5	2 298.5	3 650.8	342.3	39.2	884.9
20	Food and kindred products --	-	117	53	4.3	45.9	2.7	5.1	25.7	136.2	304.9	440.8	(D)	5.1	107.9
2011	Meat packing plants ----	-	13	6	0.3	3.3	0.3	0.5	2.5	15.2	37.8	52.6	(D)	0.5	26.8
204	Grain mill products -----	E1	16	7	0.4	6.3	0.3	0.6	4.0	22.5	73.2	95.7	(D)	0.4	13.7
205	Bakery products -----	-	15	10	1.0	10.8	0.7	1.2	6.6	27.6	23.3	50.9	(D)	(NA)	(NA)
209	Miscellaneous foods and kindred products -----	E1	14	4	0.5	4.3	0.4	0.6	2.2	11.4	11.5	22.7	0.9	0.5	6.8
232	Men's and boys' furnishings -----	E1	5	4	0.5	2.5	0.4	0.7	2.1	4.0	1.1	5.1	(D)	(NA)	(NA)
234	Women's and children's undergarments -----	-	4	4	0.6	3.5	0.5	0.9	2.9	5.5	2.1	7.2	(D)	(NA)	(NA)
2341	Women's and children's underwear -----	-	4	4	0.6	3.5	0.5	0.9	2.9	5.5	2.1	7.2	(D)	(NA)	(NA)
24	Lumber and wood products --	E1	79	22	2.3	21.1	1.7	3.6	15.7	40.5	53.3	92.8	5.1	1.4	15.8
243	Millwork, plywood, and structural members -----	E2	50	16	1.0	9.1	0.8	1.5	6.5	17.9	17.3	34.9	1.1	0.7	6.6
251	Household furniture -----	E2	28	9	0.5	5.0	0.5	0.8	3.2	9.9	8.9	18.8	(D)	0.7	6.7
27	Printing and publishing ----	-	174	26	3.7	40.5	2.1	3.8	21.7	83.6	47.9	131.3	5.0	3.2	36.4
278	Blankbooks and bookbinding -----	-	9	3	0.6	6.3	0.5	1.0	4.3	10.0	7.4	17.4	0.5	(NA)	(NA)
28	Chemicals and allied products -----	E3	50	11	1.6	18.5	1.1	2.1	11.0	51.3	52.3	101.6	13.3	1.2	24.9
32	Stone, clay, and glass products -----	-	67	27	2.7	31.3	2.2	4.3	24.4	75.7	73.3	149.3	9.9	1.8	38.2
327	Concrete, gypsum, and plaster products -----	-	43	18	1.7	20.8	1.4	2.8	17.0	47.7	51.0	98.4	6.0	1.0	22.6
3273	Ready-mixed concrete --	E1	15	10	0.9	11.6	0.8	1.5	9.7	27.1	29.2	55.9	3.3	0.3	10.8
3498	Fabricated pipe and fittings -----	-	6	2	0.3	3.6	0.2	0.3	2.3	13.1	7.7	18.7	(D)	(NA)	(NA)
35	Machinery, except electrical -	-	138	41	8.2	107.3	4.8	9.6	52.2	295.9	238.0	522.9	22.1	5.2	108.2
353	Construction and related machinery -----	-	16	6	1.9	24.7	1.2	2.1	12.6	68.8	57.9	121.8	(D)	(NA)	(NA)
3585	Refrigeration and heating equipment -----	-	4	4	0.3	3.6	0.2	0.4	2.4	11.9	8.3	19.3	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	62	18	3.8	48.7	2.6	5.0	26.9	127.7	64.6	182.6	(D)	3.1	50.6
3842	Surgical appliances and supplies -----	E1	15	3	0.3	2.5	0.2	0.4	1.2	4.4	3.1	7.3	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries ---	-	57	9	1.2	9.7	0.9	1.6	6.2	14.7	26.3	41.5	0.4	1.0	14.2
--	Administrative and auxiliary --	-	41	21	2.1	31.7	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.

(Z) Less than 50 thousand dollars or hours; under 50 employees.
¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E1															
	Box Elder County -----	-	37	7	3.5	55.7	1.8	4.1	24.8	97.3	85.8	179.7	(D)	3.2	75.6
	Cache County -----	-	75	23	3.6	33.8	3.0	5.4	25.1	84.6	245.3	326.2	5.5	2.2	37.9
20	Food and kindred products --	-	25	9	1.8	17.0	1.5	3.0	13.8	42.7	203.5	242.5	5.1	1.0	19.0
202	Dairy products -----	-	7	4	0.9	8.4	0.8	1.6	7.2	19.1	114.0	129.3	(D)	0.6	10.8
	Davis County -----	-	105	30	3.2	39.0	2.3	4.3	23.3	116.1	342.0	456.4	(D)	2.0	48.7
35	Machinery, except electrical --	-	13	4	0.6	8.9	0.4	0.8	3.7	24.7	28.9	53.0	(D)	(NA)	(NA)
	Salt Lake County -----	-	955	283	39.2	464.6	25.5	47.6	250.0	1 125.5	1 696.4	2 792.7	282.8	32.5	553.7
20	Food and kindred products --	-	88	39	3.0	31.0	1.9	3.5	16.7	94.5	186.8	281.2	(D)	3.5	73.5
202	Dairy products -----	-	15	6	0.6	7.3	0.3	0.6	3.5	17.9	65.3	83.2	(D)	(NA)	(NA)
2026	Fluid milk -----	-	8	4	0.5	6.0	0.2	0.4	2.7	15.1	56.3	71.4	(D)	(NA)	(NA)
2051	Bread, cake, and related products -----	-	8	6	0.5	5.8	0.3	0.6	3.5	14.7	12.9	27.7	0.9	(NA)	(NA)
232	Men's and boys' furnishings -----	E1	5	4	0.5	2.5	0.4	0.7	2.1	4.0	1.1	5.1	(D)	(NA)	(NA)
24	Lumber and wood products --	E1	65	16	1.9	16.2	1.4	2.8	12.7	34.2	42.3	75.5	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members -----	E2	44	13	0.9	8.4	0.8	1.4	6.0	17.0	16.0	32.6	(D)	(NA)	(NA)
2434	Wood kitchen cabinets -----	E4	26	7	0.6	5.7	0.5	0.9	4.0	9.5	7.7	17.2	0.7	(NA)	(NA)
245	Wood buildings and mobile homes -----	-	8	3	0.9	7.2	0.6	1.3	6.2	16.1	25.0	40.5	(D)	(NA)	(NA)
2452	Prefabricated wood buildings -----	-	8	3	0.9	7.2	0.6	1.3	6.2	16.1	25.0	40.5	(D)	(NA)	(NA)
27	Printing and publishing -----	-	136	20	3.0	33.8	1.8	3.3	18.6	62.7	40.9	103.3	3.7	2.7	23.8
28	Chemicals and allied products -----	E3	37	7	0.8	10.4	0.4	0.8	5.4	29.7	40.9	70.5	10.3	0.6	13.7
32	Stone, clay, and glass products -----	-	51	18	2.0	22.0	1.6	3.0	16.5	51.6	50.0	102.0	(D)	1.5	28.7
327	Concrete, gypsum, and plaster products -----	E1	31	10	1.0	12.1	0.8	1.5	9.6	24.9	28.3	53.0	3.3	0.7	13.8
3273	Ready-mixed concrete -----	E1	11	7	0.6	7.7	0.5	0.9	6.3	18.4	20.5	38.7	2.9	(NA)	(NA)
34	Fabricated metal products ---	E1	102	34	2.6	33.3	1.9	3.5	20.8	76.0	71.0	145.4	(D)	1.8	30.5
344	Fabricated structural metal products -----	-	56	28	2.0	27.2	1.5	2.7	16.9	62.9	57.4	118.8	(D)	1.5	26.4
35	Machinery, except electrical --	-	115	33	6.9	90.6	4.0	7.9	43.7	251.4	198.7	442.2	20.7	4.9	102.3
356	General industrial machinery -----	-	16	5	1.6	25.6	0.7	1.3	7.9	51.0	56.1	106.8	(D)	(NA)	(NA)
366	Communication equipment -	-	12	7	2.4	33.6	1.6	3.0	17.7	98.9	32.6	125.0	1.5	2.1	29.7
3662	Radio and TV communication equipment -----	-	12	7	2.4	33.6	1.6	3.0	17.7	98.9	32.6	125.0	1.5	(NA)	(NA)
37	Transportation equipment ---	-	34	9	1.9	33.2	0.7	1.3	8.5	64.8	32.7	96.8	(D)	3.1	70.1
39	Miscellaneous manufacturing industries -----	-	41	6	1.1	8.3	0.8	1.4	5.2	12.0	23.8	36.5	0.2	(NA)	(NA)
-	Administrative and auxiliary --	-	28	16	1.8	27.4	-	-	-	-	-	-	-	(NA)	(NA)
	Tooele County -----	-	11	6	1.0	13.7	0.8	1.9	11.0	9.5	36.6	43.5	(D)	0.2	2.3
	Utah County (Coextensive with Provo-Orem, Utah, SMSA; see table 6.)														
	Weber County -----	-	142	49	5.8	63.6	4.1	7.9	40.3	140.4	223.4	358.3	8.7	4.4	80.2
23	Apparel and other textile products -----	-	7	3	0.5	2.6	0.5	0.8	2.3	4.2	1.5	5.3	(D)	(NA)	(NA)
27	Printing and publishing -----	-	23	4	0.5	5.2	0.2	0.4	2.3	17.7	5.4	23.2	1.2	(NA)	(NA)
32	Stone, clay, and glass products -----	-	7	4	0.5	6.0	0.4	0.9	5.0	15.4	12.7	28.2	1.1	(NA)	(NA)
34	Fabricated metal products ---	E1	17	6	0.5	5.0	0.5	0.7	4.0	10.0	16.6	26.8	0.5	0.6	11.3

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry		1977										1972		
			All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees of more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
		E ¹													
20	Clearfield -----	-	28	11	1.3	13.6	1.0	2.0	9.8	58.1	53.8	105.6	(D)	1.2	25.7
	Murray -----	-	50	18	2.5	23.0	2.0	3.5	14.2	39.1	59.5	97.1	2.6	1.3	20.8
	Ogden -----	-	103	41	4.8	52.2	3.4	6.5	33.0	116.9	203.5	317.1	6.8	3.7	64.2
	Food and kindred products --	-	18	12	1.0	12.8	0.7	1.4	8.0	35.1	110.4	145.4	2.6	1.3	26.8
	Orem -----	-	30	4	0.9	8.2	0.7	1.4	5.5	15.6	11.5	26.8	1.8	0.7	8.2
	Pleasant Grove -----	-	14	5	0.5	4.2	0.4	0.7	2.9	9.0	11.9	21.1	0.6	0.5	5.5
	Salt Lake City -----	-	476	152	22.3	267.3	13.5	25.5	135.6	683.5	824.5	1 488.5	43.8	22.8	362.1
20	Food and kindred products --	-	44	16	1.6	18.0	1.0	1.9	9.1	55.5	83.8	139.4	(D)	2.2	47.5
25	Furniture and fixtures -----	-	21	8	0.5	5.9	0.4	0.8	3.7	10.4	7.8	18.1	(D)	0.5	6.2
34	Fabricated metal products ---	-	50	22	1.9	24.3	1.4	2.5	14.7	59.5	52.7	111.5	(D)	1.5	25.5
344	Fabricated structural metal products -----	-	29	18	1.5	20.3	1.1	2.0	12.1	51.3	44.4	94.9	(D)	(NA)	(NA)
356	General industrial machinery -----	-	11	5	1.6	25.2	0.7	1.3	7.8	50.2	55.6	105.5	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	23	8	2.5	31.7	1.6	3.1	16.9	87.7	30.8	114.8	(D)	2.0	23.4
-	Administrative and auxiliary --	-	20	13	1.6	25.0	-	-	-	-	-	-	-	(NA)	(NA)
	South Salt Lake -----	-	96	26	2.0	20.1	1.6	2.8	12.9	43.3	50.0	93.1	2.1	2.0	33.5
	West Jordan -----	-	16	7	0.8	7.0	0.7	1.6	5.0	9.2	35.5	48.5	(D)	0.6	11.1

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9.
Distribution of Establishments by Employment Size and Major Industry Group for the State and
Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electrical and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
UTAH	1748	201	-	8	101	146	67	19	249	62	16	53	5	119	35	164	193	73	57	53	81	46
1 TO 4 EMPLOYEES	787	81	-	4	34	70	30	9	146	23	4	24	2	51	12	120	183	38	23	28	51	17
5 TO 9 EMPLOYEES	253	29	2	10	17	24	8	2	42	16	2	13	2	13	5	22	37	9	12	29	10	6
10 TO 19 EMPLOYEES	214	23	-	6	17	10	8	2	21	9	3	11	2	10	3	20	27	8	6	7	8	12
20 TO 49 EMPLOYEES	231	20	-	17	17	10	4	2	5	4	2	2	1	22	6	20	27	9	9	3	6	9
50 TO 99 EMPLOYEES	116	19	-	13	6	6	1	3	8	3	4	1	-	16	3	15	5	1	3	1	4	5
100 TO 249 EMPLOYEES	100	13	-	14	2	2	1	5	2	1	-	-	-	2	1	11	6	2	2	2	2	1
250 TO 499 EMPLOYEES	26	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	1	4	1	-	-	-
500 TO 999 EMPLOYEES	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	-	-
1000 TO 2499 EMPLOYEES	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-
2500 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BEAVER COUNTY	8	1	-	2	1	-	-	-	2	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	7	1	-	1	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BOX ELDER COUNTY	37	9	-	5	4	-	-	2	2	-	-	1	-	3	-	1	4	1	1	1	1	-
1 TO 19 EMPLOYEES	30	8	-	3	3	-	-	2	1	-	-	1	-	2	-	1	4	1	1	1	1	-
20 TO 99 EMPLOYEES	3	1	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CACHE COUNTY	75	25	-	5	4	4	4	1	11	3	-	1	-	4	1	3	8	-	1	2	2	-
1 TO 19 EMPLOYEES	52	19	-	2	4	4	4	-	7	3	-	1	-	4	1	2	6	-	1	1	1	-
20 TO 99 EMPLOYEES	18	4	-	1	-	-	-	-	1	-	-	-	-	-	-	1	1	-	-	1	1	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CARBON COUNTY	15	3	-	1	1	-	-	-	3	1	-	-	-	2	-	-	3	-	-	-	-	-
1 TO 19 EMPLOYEES	12	3	-	-	-	-	-	-	2	-	-	-	-	2	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DAVIS COUNTY	105	6	-	4	5	4	5	4	14	3	9	6	1	6	1	9	13	2	6	3	2	6
1 TO 19 EMPLOYEES	75	5	-	-	1	1	1	2	12	2	5	6	1	3	1	5	9	1	4	2	1	2
20 TO 99 EMPLOYEES	21	1	-	-	-	-	-	-	5	1	2	-	-	3	-	2	3	-	4	1	1	-
100 TO 249 EMPLOYEES	9	-	-	-	-	-	-	-	5	-	2	-	-	-	-	2	1	-	-	-	-	-
250 EMPLOYEES AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DUCHESE COUNTY	16	2	-	-	4	-	-	-	2	-	1	-	-	3	-	-	3	-	-	-	-	-
1 TO 19 EMPLOYEES	14	2	-	-	4	-	-	-	2	-	1	-	-	2	-	-	3	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
EMERY COUNTY	2	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GARFIELD COUNTY	9	-	-	-	7	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	4	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRAND COUNTY	8	-	-	-	1	-	-	-	3	1	-	-	-	-	-	-	1	-	-	-	1	1
1 TO 19 EMPLOYEES	8	-	-	-	1	-	-	-	3	1	-	-	-	-	-	-	1	-	-	-	1	1
IRON COUNTY	22	4	-	1	3	-	2	-	4	-	-	-	-	2	-	-	3	-	1	1	1	-
1 TO 19 EMPLOYEES	18	4	-	1	3	-	-	-	4	-	-	-	-	1	-	-	3	-	1	1	1	-
20 TO 99 EMPLOYEES	3	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JUAB COUNTY	9	2	-	1	2	-	-	-	1	-	-	1	-	-	-	-	1	-	1	-	-	-
1 TO 19 EMPLOYEES	6	2	-	1	2	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KANE COUNTY	4	-	-	1	1	-	-	-	1	-	-	-	-	1	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MILLARD COUNTY	9	3	-	1	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	7	3	-	1	1	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	1	1
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
MORGAN COUNTY.	5	-	-	-	-	1	-	-	-	-	-	1	-	1	-	-	1	-	-	-	-	1
1 TO 19 EMPLOYEES.	3	-	-	-	-	1	-	-	-	-	-	1	-	1	-	-	1	-	-	-	-	1
100 TO 249 EMPLOYEES.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PIUTE COUNTY.	2	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	1	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RICH COUNTY.	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SALT LAKE COUNTY.	955	88	-	3	43	65	39	12	136	37	5	37	-	51	22	102	115	55	34	42	41	28
1 TO 19 EMPLOYEES.	672	49	-	2	22	49	24	6	116	30	3	32	-	33	14	68	82	39	25	31	35	12
20 TO 99 EMPLOYEES.	204	29	-	-	14	11	14	4	14	4	-	5	-	12	5	29	23	7	8	8	4	13
100 TO 249 EMPLOYEES.	50	10	-	-	5	3	1	2	3	3	2	-	-	4	1	5	3	4	-	-	1	2
250 EMPLOYEES AND OVER.	29	-	-	1	2	2	-	-	3	-	-	-	-	2	2	-	7	5	1	2	1	1
SAN JUAN COUNTY.	7	-	-	-	-	1	-	-	2	-	-	-	-	-	1	-	2	-	-	-	-	-
1 TO 19 EMPLOYEES.	2	-	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	5	-	-	-	1	1	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-
SANPETE COUNTY.	18	4	-	-	3	3	-	-	3	-	-	-	-	1	-	1	1	-	2	-	-	-
1 TO 19 EMPLOYEES.	14	3	-	-	2	3	-	-	3	-	-	-	-	-	-	-	-	-	1	-	-	-
20 TO 99 EMPLOYEES.	3	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEVIER COUNTY.	23	7	-	-	2	1	-	-	2	-	-	-	-	7	-	-	1	-	1	-	1	1
1 TO 19 EMPLOYEES.	16	6	-	-	1	1	-	-	1	-	-	-	-	4	-	-	1	-	1	-	1	1
20 TO 99 EMPLOYEES.	6	1	-	-	1	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
SUMMIT COUNTY.	10	2	-	-	-	5	-	-	1	-	-	-	-	-	-	1	-	-	-	-	1	-
1 TO 19 EMPLOYEES.	9	2	-	-	-	4	-	-	1	-	-	-	-	-	-	1	-	-	-	-	1	-
20 TO 99 EMPLOYEES.	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOWELE COUNTY.	11	-	-	-	1	-	-	-	1	3	-	2	-	3	1	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	5	-	-	-	1	-	-	-	1	1	-	2	-	2	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	5	-	-	-	1	-	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UINTAH COUNTY.	16	1	-	-	-	6	-	-	2	-	-	-	2	1	-	1	2	-	-	-	-	1
1 TO 19 EMPLOYEES.	12	1	-	-	-	-	-	-	2	-	-	-	-	-	-	1	1	-	-	-	-	1
20 TO 99 EMPLOYEES.	4	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UTAH COUNTY.	198	17	-	1	20	11	14	-	27	6	-	4	-	17	8	27	16	8	3	3	15	1
1 TO 19 EMPLOYEES.	149	14	-	1	10	9	12	-	24	4	-	4	-	8	3	18	16	6	3	3	13	1
20 TO 99 EMPLOYEES.	36	3	-	-	4	2	2	-	2	2	-	-	-	8	3	7	1	1	-	-	2	-
100 TO 249 EMPLOYEES.	9	-	-	-	5	-	-	-	1	-	-	-	-	1	-	2	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
WASATCH COUNTY.	18	1	-	-	-	6	2	-	3	-	-	-	-	2	-	-	4	-	-	-	-	-
1 TO 19 EMPLOYEES.	17	1	-	-	-	6	2	-	3	-	-	-	-	2	-	-	3	-	-	-	-	-
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
WASHINGTON COUNTY.	22	-	-	-	1	4	-	-	5	-	-	-	-	4	-	2	3	2	1	-	-	-
1 TO 19 EMPLOYEES.	19	-	-	-	-	4	-	-	4	-	-	-	-	4	-	1	3	2	-	-	-	-
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	2	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
WAYNE COUNTY.	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WEBER COUNTY.	142	23	-	2	7	9	1	-	23	7	1	-	2	7	-	17	10	5	6	1	14	7
1 TO 19 EMPLOYEES.	93	10	-	1	4	4	1	-	19	6	1	-	2	3	-	11	6	4	4	1	12	4
20 TO 99 EMPLOYEES.	32	10	-	1	2	4	-	-	2	-	-	-	-	2	-	4	2	1	-	-	2	1
100 TO 249 EMPLOYEES.	13	3	-	-	1	1	-	-	2	-	-	-	-	2	-	2	1	-	1	-	1	-
250 EMPLOYEES AND OVER.	4	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

- Represents zero.

¹Only those counties and size classes that include data for manufacturing establishments are shown.

Vermont

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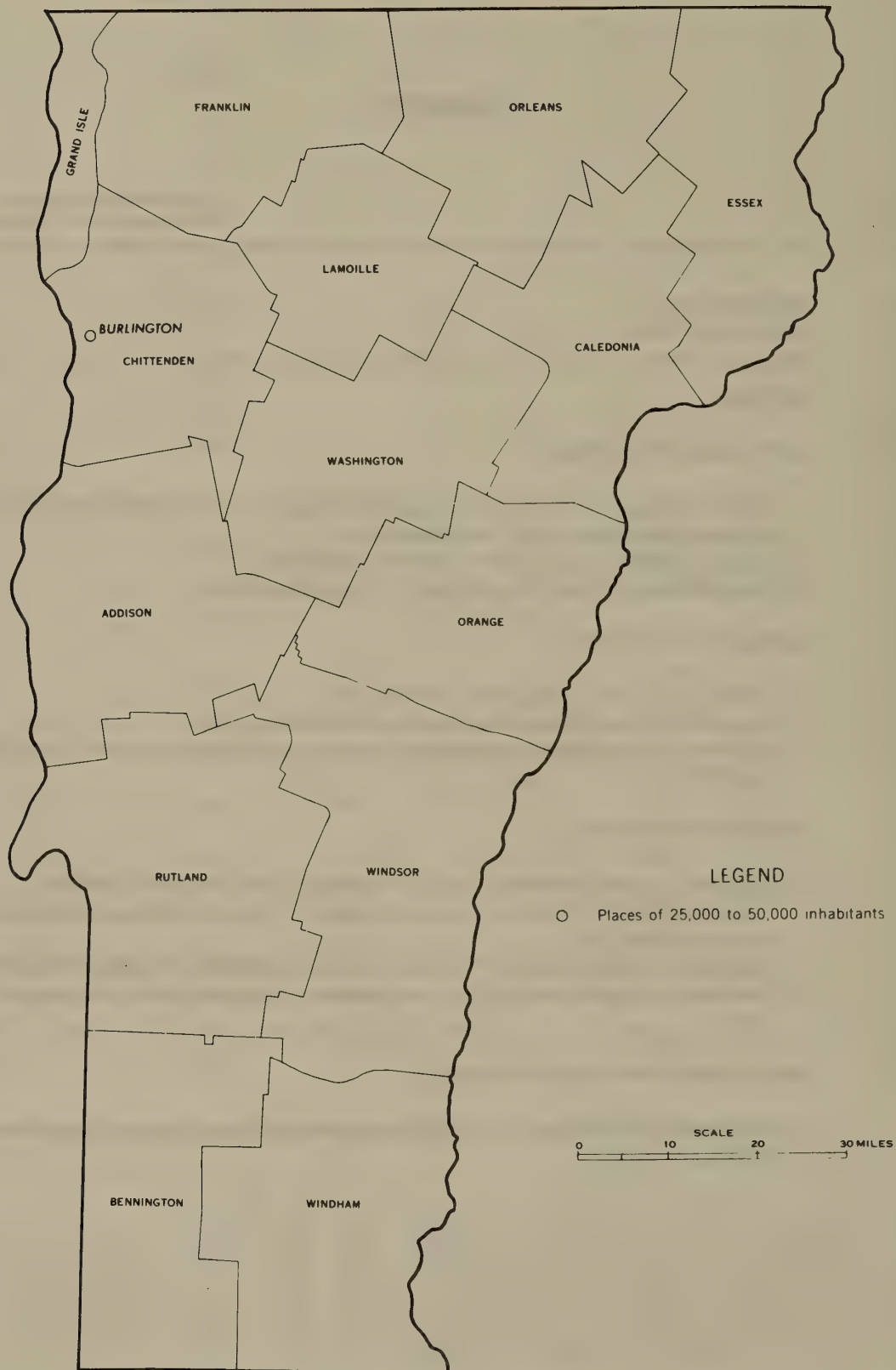
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VERMONT



SUMMARY OF FINDINGS

In 1977, 41.5 thousand persons were employed in Vermont's manufacturing establishments. This figure represented an increase of 12 percent from the 1972 figure of 36.9 thousand workers.

The total value added by manufacture for the State amounted to \$1,050 million in 1977, an increase of approximately 82 percent from the 1972 figure of \$576 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were electric and electronic equipment; machinery, except electrical; printing and publishing; and lumber and wood products. They accounted for approximately 49 percent of the State's 1977 employment.

The most important counties in the State ranked by employ-

ment were Chittenden, Windsor, and Rutland. They accounted for approximately 48 percent of the State's 1977 employment. The order has shifted from 1972 when Chittenden, Windsor, and Bennington accounted for approximately 47 percent of the States employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 2 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Vermont:						
1977.....	41.5	498.0	41.3	494.8	.2	3.2
1972.....	36.9	311.4	(D)	(D)	(D)	(D)
1967.....	42.5	259.1	42.2	256.9	.3	2.2
1963.....	33.7	167.9	33.5	166.1	.3	1.8
STANDARD METROPOLITAN STATISTICAL AREAS (None in this State)						

(D) Withheld to avoid disclosing operations of individual companies.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, county, or city totals in other tables.

Table 2a. Historical Statistics for the State: 1977 and Earlier Years

For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers							Comparative indexes and U.S. employment			
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	Index of State em- ploy- ment change (1977= 100)	United States	
														Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)
VERMONT															
1977 CENSUS.	1 030	298	41.5	498.0	28.7	55.9	270.1	1 050.1	1 175.9	2 189.3	93.0	.21	100	100	19 596.9
1976 ASM....	(NA)	(NA)	41.1	449.8	28.9	55.0	247.6	952.3	1 090.7	2 056.2	95.6	.22	99	96	18 753.0
1975 ASM....	(NA)	(NA)	40.3	409.4	27.8	52.8	224.7	776.2	909.7	1 680.3	76.6	.22	97	94	18 302.2
1974 ASM....	(NA)	(NA)	39.7	382.8	28.2	55.1	223.5	792.3	815.1	1 581.3	69.3	.20	96	102	19 844.8
1973 ASM....	(NA)	(NA)	37.8	342.7	26.6	53.1	196.1	687.8	680.0	1 359.6	42.5	.19	91	102	19 897.9
1972 CENSUS.	860	274	36.9	311.4	26.1	52.2	176.3	576.0	639.2	1 229.2	36.8	.19	89	98	19 028.7
1971 ASM....	(NA)	(NA)	37.4	296.2	25.6	51.9	161.3	562.1	540.4	1 101.9	49.7	.20	90	94	18 363.1
1970 ASM....	(NA)	(NA)	41.5	309.8	28.3	58.0	167.9	556.4	524.9	1 047.4	67.1	.22	100	99	19 217.2
1969 ASM....	(NA)	(NA)	42.6	301.0	30.0	61.5	173.4	555.5	515.2	1 043.4	51.2	.21	103	103	20 035.5
1968 ASM....	(NA)	(NA)	41.8	272.1	29.9	62.2	162.6	531.0	502.8	1 045.3	39.7	.21	101	100	19 527.6
1967 CENSUS.	925	281	42.5	259.1	31.3	64.6	162.4	515.0	622.0	1 126.9	35.1	.22	102	99	19 323.2
1966 ASM....	925	281	42.3	246.4	31.9	66.8	159.5	514.2	640.8	1 129.7	34.1	.22	102	98	19 024.5
1965 ASM....	(NA)	(NA)	38.8	207.6	29.9	61.1	138.1	410.4	549.0	898.9	36.1	.22	93	92	18 010.2
1964 ASM....	(NA)	(NA)	33.7	176.5	25.8	53.4	119.4	337.2	374.6	710.7	20.7	.20	81	89	17 268.5
1963 CENSUS.	977	267	33.7	167.9	25.7	52.4	113.4	309.3	(NA)	(NA)	15.7	.20	81	87	16 958.4

(NA) Not available.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State: 1977 and Earlier Years

For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
	VERMONT								
1977 CENSUS.....	11 986	69	1 950	4.83	54	76	25 277	47	18.79
1976 ASM.....	10 944	70	1 903	4.50	53	75	23 170	47	17.31
1975 ASM.....	10 159	69	1 899	4.26	54	79	19 261	53	14.70
1974 ASM.....	9 642	71	1 954	4.06	52	76	19 957	48	14.38
1973 ASM.....	9 066	70	1 996	3.69	50	75	18 196	50	12.95
1972 CENSUS.....	8 439	71	2 000	3.38	52	77	15 610	54	11.03
1971 ASM.....	7 920	68	2 027	3.11	49	76	15 029	53	10.83
1970 ASM.....	7 465	68	2 049	2.89	50	80	13 407	56	9.59
1969 ASM.....	7 066	70	2 050	2.82	49	78	13 040	54	9.03
1968 ASM.....	6 510	72	2 080	2.61	48	74	12 703	51	8.54
1967 CENSUS.....	6 096	74	2 064	2.51	55	78	12 118	50	7.97
1966 ASM.....	5 825	75	2 094	2.39	57	79	12 156	48	7.70
1965 ASM.....	5 351	77	2 043	2.26	61	84	10 577	51	6.72
1964 ASM.....	5 237	77	2 070	2.24	53	78	10 006	52	6.31
1963 CENSUS.....	4 982	76	2 039	2.16	(NA)	(NA)	9 178	54	5.90

Note: For qualifications to data, see footnotes on table 2a.

(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹ -----	number ----	1 030	860
With 1 to 19 employees -----	do -----	732	586
With 20 to 99 employees -----	do -----	214	196
With 100 employees or more -----	do -----	84	78
All employees, average for year ¹ -----	1,000 -----	41.5	36.9
Payroll for year, all employees ¹ -----	mil. dollars --	498.0	311.4
Production workers:			
Average for year -----	1,000 -----	28.7	26.1
March -----	do -----	27.8	25.1
May -----	do -----	28.6	25.8
August -----	do -----	29.1	26.7
November -----	do -----	29.0	26.7
Hours -----	millions -----	55.9	52.2
January to March -----	do -----	13.6	12.5
April to June -----	do -----	14.2	13.2
July to September -----	do -----	13.7	12.9
October to December -----	do -----	14.4	13.6
Wages -----	mil. dollars --	270.1	176.3
Cost of materials, etc. ² -----	do -----	1 175.9	639.2
Materials, parts, containers, etc., consumed -----	do -----	1 030.5	567.1
Resales -----	do -----	81.4	45.8
Fuels consumed -----	do -----	18.2	7.0
Purchased electric energy -----	do -----	19.8	10.4
Contract work -----	do -----	26.0	8.9
Value of shipments, including resales ² -----	do -----	2 189.3	1 229.2
Value of resales -----	do -----	87.8	50.4
Value added by manufacture -----	do -----	1 050.1	576.0
Manufacturers' inventories:			
Beginning of year -----	do -----	276.0	208.5
Finished products -----	do -----	67.2	39.3
Work in process -----	do -----	127.2	125.8
Materials, supplies, fuel, etc. -----	do -----	81.6	43.5
End of year -----	do -----	319.3	196.6
Finished products -----	do -----	65.2	45.0
Work in process -----	do -----	166.0	104.4
Materials, supplies, fuel, etc. -----	do -----	88.1	47.2
Capital expenditures for plant and equipment -----	do -----	100.7	64.0
New capital expenditures -----	do -----	93.0	36.8
New buildings and other structures -----	do -----	14.3	11.5
New machinery and equipment -----	do -----	78.7	25.3
Used capital expenditures -----	do -----	7.7	27.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Including central administrative offices and auxiliaries (for definition, see appendix B).

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	8.8	11
Beginning of year.....	738.3	3	Buildings and other structures.....	(3.2)	19
New capital expenditures.....	102.6	7	Machinery and equipment.....	5.6	12
Used capital expenditures.....	6.7	9			
Retirements.....	(35.2)	23	Depreciation charges during 1977:		
End of year.....	812.5	2	Total.....	68.5	4
Buildings and other structures:			Buildings and other structures.....	9.8	10
Beginning of year.....	200.4	4	Machinery and equipment.....	58.7	4
New capital expenditures.....	17.3	14			
Used capital expenditures.....	1.9	7	Supplemental labor costs:		
Retirements.....	(5.7)	62	Total.....	99.6	2
End of year.....	213.9	3	Legal costs.....	36.8	2
Machinery and equipment:			Voluntary costs.....	62.8	3
Beginning of year.....	537.9	3			
New capital expenditures.....	85.4	6	Purchased services:		
Automobiles, trucks, etc., for highway use...	1.6	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	3.4	(NA)	Buildings and other structures.....	(5.2)	16
All other.....	69.8	(NA)	Response coverage ratio (percent).....	60	(X)
New machinery and equipment, n.s.k.....	10.6	(NA)	Machinery.....	(10.4)	18
Used capital expenditures.....	4.9	11	Response coverage ratio (percent).....	63	(X)
Retirements.....	(29.5)	17	Cost of purchased communication services.....	(7.0)	18
End of year.....	598.7	2	Response coverage ratio (percent).....	66	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Counties, and Selected Cities and Towns: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For explanation of terms, see appendix B]

Geographic area		1977										1972		
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
	E ¹													
Vermont -----	-	1 030	298	41.5	498.0	28.7	55.9	270.1	1 050.1	1 175.9	2 189.3	93.0	36.9	576.0
COUNTIES														
Addison -----	-	45	13	1.9	20.5	1.5	3.0	13.1	53.1	91.8	144.3	1.6	1.5	25.3
Bennington -----	-	85	36	4.2	40.6	3.4	6.2	28.6	117.2	119.6	235.1	9.7	4.4	64.4
Caledonia -----	-	64	16	1.8	20.8	1.3	2.7	13.8	54.9	37.1	91.0	3.6	1.5	25.8
Chittenden -----	-	130	36	10.2	168.0	3.8	8.0	40.0	298.8	347.9	615.2	44.4	8.5	148.4
Essex -----	-	14	5	1.0	10.0	0.9	1.8	8.2	20.0	30.5	50.2	(D)	(D)	(D)
Franklin -----	-	53	19	2.2	23.3	1.7	3.4	16.8	50.1	113.0	165.0	3.0	2.1	35.3
Grand Isle -----	-	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lamoille -----	-	44	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	4.0
Orange -----	-	38	13	1.1	9.8	0.9	1.7	7.1	16.4	22.3	39.0	1.9	0.7	8.5
Orleans -----	-	44	17	1.8	16.0	1.5	3.0	12.1	31.0	55.6	92.0	1.3	1.6	20.9
Rutland -----	-	112	36	4.5	51.4	3.6	6.9	36.5	114.8	89.6	204.3	4.5	4.3	75.9
Washington -----	-	136	32	2.6	26.5	2.1	4.0	19.2	47.1	64.0	111.2	4.3	2.7	34.3
Windham -----	-	140	38	4.3	42.8	3.6	6.8	31.6	88.1	96.3	183.5	7.5	3.6	51.5
Windsor -----	-	122	29	5.3	63.5	3.8	7.5	39.8	148.3	100.6	241.0	5.6	4.6	66.8
CITIES AND TOWNS														
Barre -----	-	62	17	1.4	14.8	1.2	2.2	11.1	29.3	19.9	49.0	1.0	2.1	26.5
Bellows Falls -----	-	22	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	10.2
Bennington -----	-	42	24	2.6	25.9	2.1	3.8	18.4	67.7	86.8	154.3	8.2	2.4	35.3
Brattleboro town -----	-	53	18	2.8	29.8	2.3	4.4	21.7	61.5	63.6	124.8	2.1	2.2	34.3
Burlington -----	-	53	19	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.7	72.0
Essex Junction -----	-	13	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Newport -----	-	14	10	0.7	5.5	0.6	1.1	3.9	10.7	22.7	34.1	0.6	(NA)	(NA)
Rutland -----	-	27	14	2.6	31.5	2.0	3.9	22.1	78.8	42.5	121.7	2.9	2.6	54.7
St. Albans -----	-	11	5	0.5	6.4	0.4	0.8	3.9	11.2	26.2	38.1	0.4	1.2	21.9
Springfield town -----	-	24	9	2.5	35.2	1.7	3.6	21.0	82.1	54.0	129.1	2.1	1.6	26.1

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E10—100 percent.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials³ (million dollars)	Value of shipments³ (million dollars)	New capital expenditures (million dollars)	All employees² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	All Industries -----	-	1 030	298	41.5	498.0	28.7	55.9	270.1	1 050.1	1 175.9	2 189.3	93.0	36.9	576.0
20	Food and kindred products -----	-	89	35	2.2	23.6	1.3	2.7	13.0	59.8	295.9	357.7	3.4	2.0	40.4
201	Meat products -----	E2	10	4	0.2	1.2	0.1	0.3	1.0	1.4	11.4	12.9	(Z)	AA	(D)
202	Dairy products -----	-	40	16	0.9	10.9	0.6	1.2	6.1	29.8	186.2	216.7	1.8	0.9	15.8
2022	Cheese, natural and processed -----	-	10	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2026	Fluid milk -----	-	26	11	0.6	7.8	0.3	0.7	3.6	15.8	119.0	135.6	1.2	0.7	8.5
204	Grain mill products -----	-	8	4	0.3	3.7	0.2	0.5	2.7	9.8	74.1	85.1	(D)	0.4	9.8
2048	Prepared feeds, n.e.c. -----	-	8	4	0.3	3.7	0.2	0.5	2.7	9.8	74.1	85.1	(D)	0.4	9.8
205	Bakery products -----	E1	11	5	0.4	4.1	0.2	0.4	1.9	8.2	10.2	18.4	(D)	BB	(D)
2051	Bread, cake, and related products -----	E1	11	5	0.4	4.1	0.2	0.4	1.9	8.2	10.2	18.4	(D)	BB	(D)
208	Beverages -----	E1	7	4	0.2	2.0	0.1	0.1	0.4	4.8	6.4	11.2	0.3	(NA)	(NA)
2088	Bottled and canned soft drinks -----	E1	7	4	0.2	2.0	0.1	0.1	0.4	4.8	6.4	11.2	0.3	(NA)	(NA)
209	Miscellaneous foods and kindred products -----	-	10	2	0.2	1.6	0.1	0.2	1.0	5.7	7.7	13.4	0.3	(NA)	(NA)
2099	Food preparations, n.e.c. -----	-	9	2	0.2	1.6	0.1	0.2	1.0	5.7	7.7	13.4	0.3	(NA)	(NA)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
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[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
22	Textile mill products --	E3	15	11	0.6	5.2	0.5	1.0	4.0	8.6	13.7	22.4	(D)	9.6	5.9
225	Knitting mills -----	-	6	4	0.3	2.0	0.2	0.4	1.4	2.8	1.1	3.9	(D)	AA	(D)
2257	Circular knit fabric mills -----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
23	Apparel and other textile products -----	-	36	16	1.3	8.1	1.1	1.9	6.2	15.4	8.9	24.3	(D)	1.2	7.9
232	Men's and boys' furnishings -----	-	7	6	0.5	3.1	0.4	0.7	2.1	6.6	3.4	10.0	(D)	0.2	1.7
2321	Men's and boys' shirts and nightwear -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2329	Men's and boys' clothing, n.e.c. -----	-	3	3	0.3	1.6	0.2	0.4	0.8	3.9	2.7	6.6	(D)	(NA)	(NA)
233	Women's and misses' outerwear -----	-	17	6	0.5	3.2	0.5	0.7	2.6	6.1	3.5	9.6	(D)	0.6	3.5
2335	Women's and misses' dresses -----	E1	12	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
234	Women's and children's undergarments -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2341	Women's and children's underwear -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
24	Lumber and wood products -----	E1	263	42	3.5	29.5	3.0	6.0	22.3	57.0	81.4	137.5	(D)	2.5	28.7
2411	Logging camps and logging contractors -----	E7	111	1	0.2	2.4	0.2	0.3	2.0	5.8	7.3	13.1	(D)	BB	(D)
242	Sawmills and planing mills -----	E1	82	18	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	9.8
2421	Sawmills and planing mills, general -----	E1	69	14	1.2	9.8	1.0	2.1	7.5	21.4	24.5	45.9	(D)	0.6	8.0
2426	Hardwood dimension and flooring -----	E1	10	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
243	Millwork, plywood, and structural members -----	-	16	6	0.8	6.0	0.7	1.3	5.0	10.6	20.6	31.0	(D)	CC	(D)
2435	Hardwood veneer and plywood -----	-	4	4	0.6	4.9	0.6	1.0	4.1	8.6	18.7	27.0	(D)	CC	(D)
244	Wood containers -----	E1	11	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2449	Wood containers, n.e.c. -----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
249	Miscellaneous wood products --	-	35	14	0.8	6.9	0.7	1.3	4.8	11.3	16.5	27.6	(D)	CC	(D)
2499	Wood products, n.e.c. -----	-	33	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
25	Furniture and fixtures --	-	27	16	2.4	20.5	2.1	4.1	16.1	33.3	28.2	55.7	(D)	2.2	25.6
251	Household furniture -----	E1	24	13	2.3	19.3	2.0	3.9	15.3	29.9	25.2	59.5	(D)	EE	(D)
2511	Wood household furniture -----	E1	24	13	2.3	19.3	2.0	3.9	15.3	29.9	25.2	59.5	(D)	EE	(D)
26	Paper and allied products -----	-	28	15	2.6	31.7	2.1	4.2	22.7	88.2	114.7	201.7	10.0	2.2	55.6
2621	Paper mills, except building paper -----	-	10	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2631	Paperboard mills -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
264	Miscellaneous converted paper products -----	-	14	6	1.2	12.5	1.0	1.9	9.4	47.0	48.7	94.0	2.9	0.8	25.7
2647	Sanitary paper products -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2649	Converted paper products, n.e.c. -----	E4	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
265	Paperboard containers and boxes -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2654	Sanitary food containers -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
27	Printing and publishing -----	-	162	37	3.5	36.3	2.6	4.8	24.8	78.3	43.2	121.6	5.3	3.6	58.2
2711	Newspapers -----	-	45	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	11.6
273	Books -----	-	10	5	1.0	11.3	0.8	1.7	8.8	17.8	6.7	24.4	0.5	EE	(D)
2732	Book printing -----	-	5	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2741	Miscellaneous publishing -----	E1	12	4	0.2	2.0	0.2	0.3	1.2	3.4	2.0	5.5	0.2	(NA)	(NA)
275	Commercial printing -----	E1	73	11	0.6	7.0	0.5	0.9	4.6	10.4	8.6	19.0	1.3	0.7	11.3
2752	Commercial printing, lithographic -----	-	32	10	0.6	6.3	0.4	0.8	4.1	9.0	7.4	16.5	1.2	0.6	9.0
2761	Manifold business forms -----	-	3	3	0.5	6.5	0.4	0.9	5.0	23.8	18.6	42.2	1.2	BB	(D)
28	Chemicals and allied products -----	E1	13	4	0.2	2.6	0.1	0.3	1.7	12.2	6.2	18.5	0.6	0.3	7.1
30	Rubber and miscellaneous plastics products -----	-	24	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	21.9
3069	Fabricated rubber products, n.e.c. -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3079	Miscellaneous plastics products -----	-	22	12	1.5	12.6	1.3	2.4	9.4	27.7	25.9	53.8	1.6	EE	(D)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital ex- pend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
31	Leather and leather products -----	-	8	3	0.4	2.7	0.3	0.6	1.9	4.5	7.5	11.7	(D)	0.6	3.6
3111	Leather tanning and finishing --	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
32	Stone, clay, and glass products -----	E1	115	27	2.0	23.7	1.6	3.1	15.8	43.2	36.3	79.3	1.5	2.7	37.4
327	Concrete, gypsum, and plaster products -----	E2	27	5	0.4	4.8	0.3	0.5	2.7	10.6	10.6	21.2	(D)	0.5	8.8
3272	Concrete products, n.e.c. ---	E1	15	1	0.2	1.6	0.1	0.1	0.7	4.1	1.8	5.8	0.1	(NA)	(NA)
3273	Ready-mixed concrete -----	E4	10	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	6.6
3281	Cut stone and stone products -	-	74	19	1.4	17.0	1.2	2.3	13.0	29.0	24.0	52.8	0.8	2.0	27.7
33	Primary metal industries -----	-	14	7	0.9	8.9	0.8	1.4	6.3	26.0	26.7	51.8	1.0	EE	(D)
335	Nonferrous rolling and drawing -	-	8	4	0.8	7.3	0.6	1.1	5.1	23.4	23.6	46.3	0.9	CC	(D)
3357	Nonferrous wire drawing and insulating -----	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
34	Fabricated metal products -----	-	43	10	3.1	47.3	1.6	3.3	18.0	105.1	84.0	182.1	3.0	2.4	42.4
342	Cutlery, hand tools, and hardware -----	-	6	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3423	Hand and edge tools, n.e.c. -	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
344	Fabricated structural metal products -----	-	11	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
348	Ordnance and accessories, n.e.c. -----	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3484	Small arms -----	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
35	Machinery, except electrical -----	-	85	32	6.0	77.8	4.3	8.6	50.2	189.8	84.4	265.0	6.9	5.0	94.3
354	Metalworking machinery -----	-	23	12	3.8	50.4	2.7	5.5	33.0	111.2	48.6	155.5	4.3	3.1	56.7
3541	Machine tools, metal cutting types -----	-	6	4	2.8	38.2	1.9	3.8	23.7	86.8	37.3	117.2	2.5	EE	(D)
3545	Machine tool accessories ---	-	4	4	0.7	9.1	0.6	1.3	7.0	18.5	7.0	28.3	1.6	1.2	24.1
355	Special industry machinery ---	-	19	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.4
3553	Woodworking machinery ---	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
356	General industrial machinery ---	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
357	Office and computing machines -----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3576	Scales and balances, except laboratory -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
358	Refrigeration and service machinery -----	-	4	3	0.4	5.5	0.3	0.6	3.8	19.5	7.4	26.6	0.4	BB	(D)
3589	Service industry machinery, n.e.c. -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E2	28	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.0
3599	Machinery, except electrical, n.e.c. -----	E2	28	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.0
36	Electric and electronic equipment -	-	31	11	7.3	120.7	2.9	5.7	27.8	217.6	273.7	468.2	(D)	FF	(D)
364	Electric lighting and wiring equipment -----	-	7	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3648	Lighting equipment, n.e.c. ---	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
367	Electronic components and accessories -----	-	12	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3674	Semiconductors and related devices -----	-	2	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3675	Electronic capacitors -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
369	Miscellaneous electrical equipment and supplies -----	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3691	Storage batteries -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3692	Primary batteries, dry and wet -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
37	Transportation equipment -----	-	12	5	1.5	20.4	1.3	2.6	14.8	32.5	18.3	51.3	2.5	EE	(D)
371	Motor vehicles and equipment -	E1	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
372	Aircraft and parts -----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3724	Aircraft engines and engine parts -----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con. .

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
38	Instruments and related products -----	-	11	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	19.1
382	Measuring and controlling devices -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3829	Measuring and controlling devices, n.e.c. -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
384	Medical instruments and supplies -----	E2	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3841	Surgical and medical instruments -----	E2	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3851	Ophthalmic goods -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
39	Miscellaneous manufacturing industries -----	E2	44	7	0.5	3.7	0.4	0.7	2.6	8.7	6.1	15.0	(D)	0.9	11.1
394	Toys and sporting goods -----	E3	16	4	0.3	1.7	0.2	0.4	1.1	4.0	2.0	6.3	(D)	0.5	4.9
399	Miscellaneous manufactures ---	E1	17	3	0.2	1.8	0.2	0.3	1.3	4.0	3.6	7.6	(D)	0.4	5.9
-	Administrative and auxiliary -----	-	10	3	0.2	3.2	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Not applicable]

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expen- ditures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Addison County -----	-	45	13	1.9	20.5	1.5	3.0	13.1	53.1	91.8	144.3	1.6	1.5	25.3
	Bennington County -----	-	85	36	4.2	40.6	3.4	6.2	28.6	117.2	119.6	235.1	9.7	4.4	64.4
	Caledonia County -----	-	64	16	1.8	20.8	1.3	2.7	13.8	54.9	37.1	91.0	3.6	1.5	25.8

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977										1972		
			All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
		E ¹													
20	Chittenden County -----	-	130	36	10.2	168.0	3.8	8.0	40.0	298.8	347.9	615.2	44.4	8.5	148.4
	Food and kindred products --	-	20	10	0.6	6.8	0.4	0.7	3.4	15.3	46.6	61.9	(D)	0.5	17.4
	Essex County -----	-	14	5	1.0	10.0	0.9	1.8	8.2	20.0	30.5	50.2	(D)	(D)	(D)
	Franklin County -----	-	53	19	2.2	23.3	1.7	3.4	16.8	50.1	113.0	165.0	3.0	2.1	35.3
	Orange County -----	-	38	13	1.1	9.8	0.9	1.7	7.1	16.4	22.3	39.0	1.9	0.7	8.5
	Orleans County -----	-	44	17	1.8	16.0	1.5	3.0	12.1	31.0	55.6	92.0	1.3	1.6	20.9
24	Rutland County -----	-	112	36	4.5	51.4	3.6	6.9	36.5	114.8	89.6	204.3	4.5	4.3	75.9
	Lumber and wood products --	-	24	6	0.6	6.2	0.5	1.0	4.6	10.9	21.2	31.9	(D)	(NA)	(NA)
	Printing and publishing -----	-	17	5	0.5	5.5	0.3	0.6	3.3	16.2	11.6	27.8	0.3	(NA)	(NA)
	Stone, clay, and glass products -----	E3	16	6	0.5	6.3	0.4	0.8	4.8	8.7	6.7	15.5	0.3	0.7	8.3
	Washington County -----	-	136	32	2.6	26.5	2.1	4.0	19.2	47.1	64.0	111.2	4.3	2.7	34.3
	Stone, clay, and glass products -----	-	65	15	1.1	12.4	0.9	1.7	9.2	23.5	20.6	43.9	0.6	1.4	21.7
26	Windham County -----	-	140	38	4.3	42.8	3.6	6.8	31.6	88.1	96.3	183.5	7.5	3.6	51.5
	Lumber and wood products --	-	50	7	0.8	6.3	0.7	1.4	5.2	11.4	13.9	25.2	(D)	(NA)	(NA)
	Paper and allied products ---	-	7	6	0.9	11.3	0.8	1.5	7.8	25.7	45.7	70.8	(D)	0.5	9.8
	Miscellaneous converted paper products -----	E1	4	3	0.6	7.0	0.5	1.0	4.8	16.9	34.2	50.4	(D)	(NA)	(NA)
	Printing and publishing -----	E1	32	9	1.3	13.7	1.1	2.0	10.5	22.7	11.5	34.4	1.2	1.3	17.9
	Windsor County -----	-	122	29	5.3	63.5	3.8	7.5	39.8	148.3	100.6	241.0	5.6	4.6	66.8
35 354	Machinery, except electrical --	-	21	8	3.1	43.2	2.1	4.3	26.6	101.5	43.6	138.0	2.8	2.1	37.3
	Metalworking machinery ---	-	8	6	2.9	40.8	2.0	4.1	25.3	92.6	40.8	126.5	2.7	(NA)	(NA)

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E10—100 percent.
²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities and Towns: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
32	Barre -----	-	62	17	1.4	14.8	1.2	2.2	11.1	29.3	19.9	49.0	1.0	2.1	26.5
	Stone, clay, and glass products -----	-	48	12	0.7	8.7	0.6	1.2	6.5	16.6	12.6	29.0	0.4	(NA)	(NA)
	Bennington -----	-	42	24	2.6	25.9	2.1	3.8	18.4	67.7	86.8	154.3	8.2	2.4	35.3
27	Brattleboro town -----	-	53	18	2.8	29.8	2.3	4.4	21.7	61.5	53.6	124.8	2.1	2.2	34.3
	Printing and publishing -----	E1	21	7	1.2	12.4	1.0	1.8	9.7	19.6	7.6	27.4	(D)	(NA)	(NA)
	Newport -----	-	14	10	0.7	5.5	0.6	1.1	3.9	10.7	22.7	34.1	0.6	(NA)	(NA)
27	Rutland -----	-	27	14	2.6	31.5	2.0	3.9	22.1	78.8	42.5	121.7	2.9	2.8	54.7
	Printing and publishing -----	-	9	5	0.5	5.3	0.3	0.6	3.1	15.6	11.5	27.1	(D)	(NA)	(NA)
	St. Albans -----	-	11	5	0.5	6.4	0.4	0.8	3.9	11.2	26.2	38.1	0.4	1.2	21.9
3541	Springfield town -----	-	24	9	2.5	35.2	1.7	3.6	21.0	82.1	54.0	129.1	2.1	1.6	26.1
	Machine tools, metal cutting types -----	-	3	3	2.0	28.1	1.3	2.9	17.2	62.8	29.4	85.5	1.3	(NA)	(NA)

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
VERMONT	1030	89	-	15	36	263	27	28	162	13	-	24	8	115	14	43	85	31	12	11	44	10
1 TO 4 EMPLOYEES	489	34	-	1	13	194	2	8	96	5	-	6	3	47	23	37	12	3	4	4	24	3
5 TO 9 EMPLOYEES	115	9	-	1	5	31	7	1	17	2	-	2	2	15	2	4	9	3	2	1	9	2
10 TO 19 EMPLOYEES	128	11	-	1	5	26	7	2	12	2	-	3	2	26	1	6	7	5	2	2	5	2
20 TO 49 EMPLOYEES	144	23	-	6	9	22	7	4	21	3	-	3	1	17	2	1	12	2	1	2	2	1
50 TO 99 EMPLOYEES	170	3	-	2	12	2	4	5	9	1	-	3	2	3	1	1	6	4	2	1	2	2
100 TO 249 EMPLOYEES	56	4	-	2	5	8	4	4	6	1	-	5	2	3	2	1	7	2	1	1	1	1
250 TO 499 EMPLOYEES	16	1	-	1	1	1	1	1	1	1	-	2	1	1	1	1	4	1	1	1	-	-
500 TO 999 EMPLOYEES	9	1	-	1	1	1	1	1	1	1	-	1	1	1	1	1	3	2	1	1	-	-
1000 TO 2499 EMPLOYEES	2	1	-	1	1	1	1	1	1	1	-	1	1	1	1	1	4	1	1	1	-	-
2500 EMPLOYEES AND OVER	1	1	-	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	-	-
ADDISON COUNTY	45	6	-	-	1	13	2	1	7	2	-	3	-	1	1	1	3	-	-	1	4	1
1 TO 19 EMPLOYEES	32	1	-	-	1	9	1	1	5	1	-	2	-	1	1	1	3	-	-	-	3	1
20 TO 99 EMPLOYEES	8	1	-	-	1	3	1	1	1	1	-	1	-	1	1	1	1	-	-	-	1	1
100 TO 249 EMPLOYEES	4	1	-	-	1	1	1	1	1	1	-	1	-	1	1	1	1	-	-	1	-	-
250 EMPLOYEES AND OVER	1	1	-	-	1	1	1	1	1	1	-	1	-	1	1	1	1	-	-	-	-	-
BENNINGTON COUNTY	85	4	-	2	6	15	5	6	9	1	-	3	1	4	1	5	9	5	2	-	7	-
1 TO 19 EMPLOYEES	49	3	-	1	3	12	3	1	6	1	-	2	-	2	2	3	6	1	1	1	5	2
20 TO 99 EMPLOYEES	23	1	-	2	3	3	2	1	3	1	-	1	-	2	1	1	2	1	1	1	2	1
100 TO 249 EMPLOYEES	10	1	-	1	1	1	1	1	1	1	-	1	-	1	1	1	1	1	1	1	-	-
250 EMPLOYEES AND OVER	3	1	-	1	1	1	1	1	1	1	-	1	-	1	1	1	1	1	1	1	-	-
CALEDONIA COUNTY	64	2	-	1	1	26	1	2	7	2	-	-	1	7	-	1	9	2	1	1	1	1
1 TO 19 EMPLOYEES	48	1	-	1	1	24	1	1	6	2	-	-	1	6	-	1	4	1	1	1	1	1
20 TO 99 EMPLOYEES	11	2	-	1	2	2	1	1	1	1	-	-	1	1	-	2	1	1	1	1	-	-
100 TO 249 EMPLOYEES	3	1	-	1	1	1	1	1	1	1	-	-	-	1	-	1	1	1	1	-	-	-
250 EMPLOYEES AND OVER	2	1	-	1	1	1	1	1	1	1	-	-	-	-	-	2	2	-	-	-	-	-
CHITTENDEN COUNTY	130	20	-	1	3	17	2	2	27	1	-	5	-	9	4	8	11	5	2	3	8	2
1 TO 19 EMPLOYEES	94	10	-	1	2	15	1	2	21	1	-	4	1	8	2	5	4	4	1	3	8	1
20 TO 99 EMPLOYEES	27	9	-	1	1	12	1	1	4	1	-	1	-	1	1	2	5	1	1	1	1	1
100 TO 249 EMPLOYEES	6	1	-	1	1	1	1	1	2	1	-	1	-	1	1	1	1	1	1	-	-	-
250 EMPLOYEES AND OVER	3	1	-	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-
ESSEX COUNTY	14	1	-	-	-	9	2	1	1	1	-	-	-	-	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	9	1	-	-	-	8	1	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	1	-	-	1	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	1	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	-	1	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
FRANKLIN COUNTY	53	7	-	1	8	10	1	4	5	-	-	1	-	2	3	3	2	2	1	1	3	1
1 TO 19 EMPLOYEES	34	3	-	1	5	10	1	1	4	-	-	1	-	1	2	1	2	1	1	1	2	1
20 TO 99 EMPLOYEES	15	1	-	1	3	3	1	1	1	-	-	1	-	1	1	1	2	1	1	1	1	1
100 TO 249 EMPLOYEES	3	1	-	1	1	1	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	1	-	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
GRAND ISLE COUNTY	3	1	-	-	1	1	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	1	-	-	1	1	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-
LAMOILLE COUNTY	44	2	-	-	4	22	-	-	7	-	-	-	-	1	-	1	2	3	3	2	2	1
1 TO 19 EMPLOYEES	36	2	-	-	2	17	-	-	6	-	-	-	-	1	-	1	2	3	3	1	2	1
20 TO 99 EMPLOYEES	7	1	-	-	1	5	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
ORANGE COUNTY	38	4	-	2	9	9	2	2	7	-	-	1	1	1	1	4	3	3	2	1	-	-
1 TO 19 EMPLOYEES	25	4	-	1	5	5	1	2	6	-	-	1	1	1	1	1	2	2	1	1	-	-
20 TO 99 EMPLOYEES	9	1	-	1	3	3	1	1	1	-	-	-	-	1	1	1	1	1	1	1	-	-
100 TO 249 EMPLOYEES	3	1	-	1	1	1	1	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	1	-	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
ORLEANS COUNTY	44	6	-	-	5	17	2	1	2	1	-	1	-	-	-	2	4	2	2	1	1	1
1 TO 19 EMPLOYEES	27	1	-	-	2	14	-	-	1	-	-	-	-	-	-	2	2	3	3	1	1	1
20 TO 99 EMPLOYEES	11	5	-	-	2	2	1	1	1	-	-	-	-	-	-	1	3	1	1	1	1	1
100 TO 249 EMPLOYEES	4	1	-	-	2	1	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	1	1	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
RUTLAND COUNTY	112	14	-	-	3	24	3	1	17	3	-	2	2	16	1	5	7	2	4	1	4	3
1 TO 19 EMPLOYEES	76	11	-	-	2	18	3	1	12	3	-	2	2	10	1	5	3	3	2	1	2	2
20 TO 99 EMPLOYEES	26	3	-	-	1	4	1	-	3	2	-	1	-	5	-	1	2	1	1	1	1	1
100 TO 249 EMPLOYEES	8	1	-	-	2	2	-	-	2	1	-	-	-	1	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-

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Virginia

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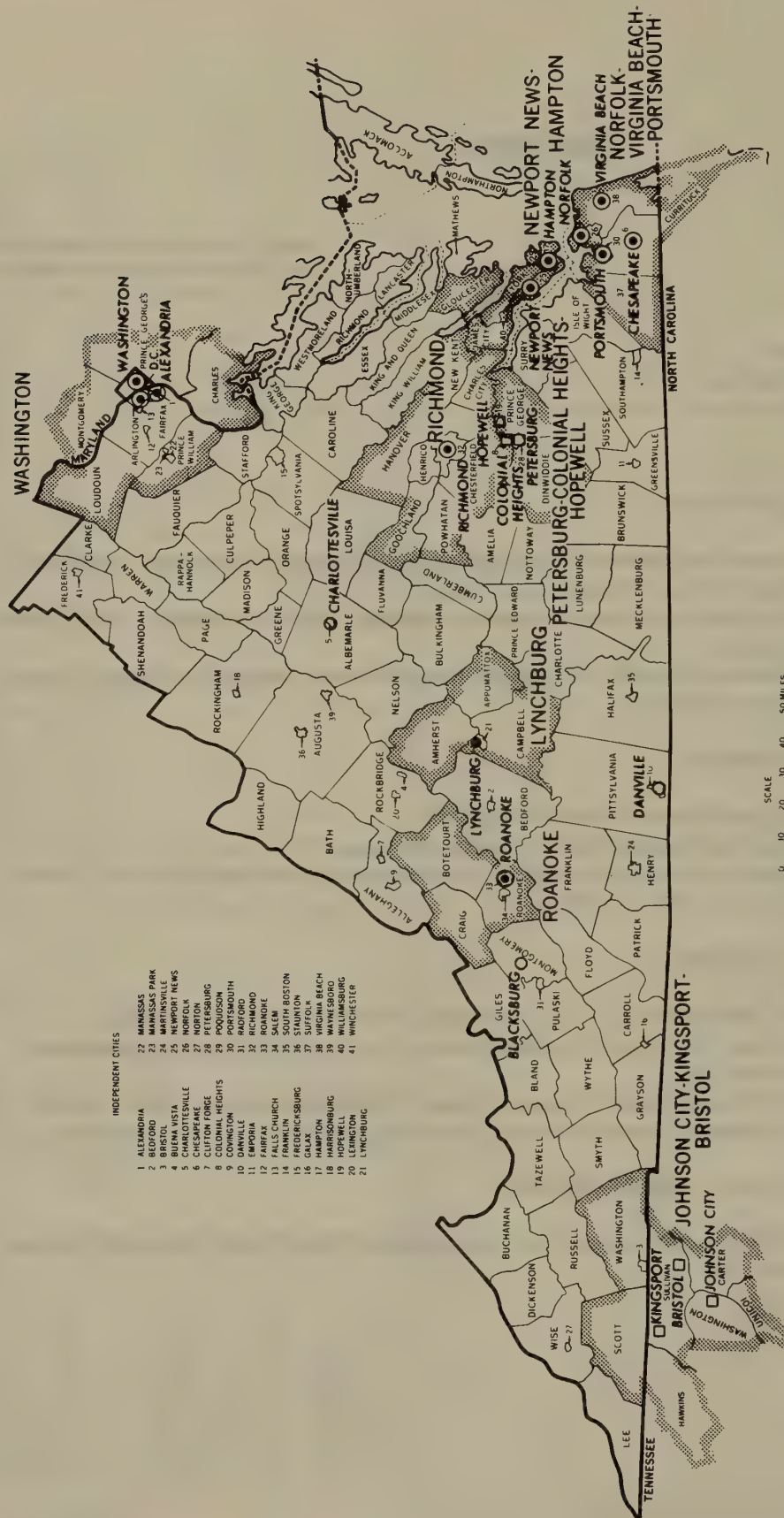
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LEGEND

- ☒ Places of 100,000 or more inhabitants
- ☒ Places of 50,000 to 100,000 inhabitants
- ☐ SMSA central cities with fewer than 50,000 inhabitants
- ☐ Places of 25,000 to 50,000 inhabitants outside SMSA's

Standard Metropolitan
Statistical Areas (SMSA's)

SUMMARY OF FINDINGS

In 1977, 395.2 thousand persons were employed in Virginia's manufacturing establishments. This figure represented an increase of 5 percent from the 1972 figure of 375.4 thousand workers.

The total value added by manufacture for the State amounted to \$10,882 million in 1977, an increase of approximately 76 percent from the 1972 figure of \$6,178 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were textile mill products, apparel and other textile products, transportation equipment, and food and kindred products. They accounted for approximately 38 percent of the State's 1977 employment. The order has shifted from 1972 when industry groups textile mill products, apparel and other textile products, food and kindred products, and chemicals and allied products accounted for approximately 39 percent of the State's employment.

The most important cities in the State ranked by employment were Richmond, Newport News, Lynchburg, and Martinsville. They accounted for approximately 25 percent of the State's 1977 manufacturing employment. These cities are independent of any county organization and, therefore, constitute primary divisions of the State and are treated as county equivalents in the census.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 3 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Virginia:						
1977.....	395.2	4,442.4	383.5	4,244.9	11.7	197.5
1972.....	375.4	2,826.0	365.8	2,720.3	9.6	105.7
1967.....	339.8	1,905.1	331.6	1,828.1	8.2	77.0
1963.....	302.1	1,432.0	295.3	1,377.1	6.8	54.9
STANDARD METROPOLITAN STATISTICAL AREAS						
Johnson City-Kingsport-Bristol, Tenn.-Va.:						
1977.....	54.5	655.6	54.0	649.5	.5	6.1
1972.....	49.3	400.3	49.3	400.3	-	-
Lynchburg:						
1977.....	27.3	317.7	24.7	279.2	2.6	38.5
1972.....	24.4	191.3	22.0	168.6	2.4	22.7
1967.....	20.1	115.3	18.7	101.7	1.4	13.9
1963.....	18.0	86.9	(D)	(D)	(D)	(D)
Newport News-Hampton:						
1977.....	34.3	447.3	33.7	438.8	.6	8.5
1972.....	35.6	322.0	35.0	315.9	.5	6.1
Norfolk-Virginia Beach-Portsmouth, Va.-N.C.:						
1977.....	26.7	326.2	26.0	317.1	.7	9.1
1972.....	27.6	206.6	27.2	202.0	.4	4.6
Petersburg-Colonial Heights-Hopewell:						
1977.....	11.5	155.2	11.3	152.5	.2	2.7
1972.....	12.1	100.0	(D)	(D)	(D)	(D)
Richmond:						
1977.....	53.4	732.8	48.9	646.5	4.5	86.3
1972.....	50.2	447.3	46.3	401.5	4.0	45.8
1967.....	51.4	337.8	47.0	294.6	4.4	43.2
1963.....	46.0	256.6	41.9	222.7	4.1	33.9
Roanoke:						
1977.....	20.4	225.2	(D)	(D)	(D)	(D)
1972.....	20.9	160.2	(D)	(D)	(D)	(D)
1967.....	16.9	95.9	(D)	(D)	(D)	(D)
1963.....	14.7	71.3	(D)	(D)	(D)	(D)
Washington, D.C.-Md.-Va.:						
1977.....	60.5	930.9	55.2	814.9	5.3	116.0
1972.....	54.9	588.9	52.2	535.0	3.4	53.9
1967.....	55.5	410.1	53.5	384.3	2.0	25.8
1963.....	50.1	324.3	47.0	291.3	3.1	33.0

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers								Comparative indexes and U.S. employment				
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	Index of State em- ploy- ment change (1977= 100)	United States			
														Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)		
VIRGINIA																	
1977 CENSUS.	5 519	1 879	395.2	4 442.4	302.0	581.8	2 916.8	10 882.0	13 233.5	23 988.6	953.0	2.02	100	100	19 596.9		
1976 ASM....	(NA)	(NA)	377.3	3 851.0	288.9	560.7	2 547.7	9 367.7	11 255.3	20 470.5	907.4	2.01	95	96	18 753.0		
1975 ASM....	(NA)	(NA)	362.9	3 444.2	276.3	522.4	2 240.4	7 544.9	9 994.0	17 700.5	672.0	1.98	92	94	18 302.2		
1974 ASM....	(NA)	(NA)	381.6	3 292.7	296.4	578.9	2 234.7	7 869.5	9 451.0	16 719.3	784.5	1.92	97	102	19 844.8		
1973 ASM....	(NA)	(NA)	386.4	3 097.1	300.9	593.7	2 085.2	6 874.8	7 878.6	14 699.7	615.1	1.94	98	102	19 897.9		
1972 CENSUS.	4 837	1 768	375.4	2 826.0	293.2	582.9	1 902.1	6 177.5	6 716.7	12 823.5	585.8	1.97	95	98	19 028.7		
1971 ASM....	(NA)	(NA)	350.6	2 448.1	269.5	528.3	1 610.1	5 172.8	5 737.5	10 949.6	435.3	1.91	89	94	18 363.1		
1970 ASM....	(NA)	(NA)	354.1	2 343.0	273.0	536.1	1 548.5	4 921.5	5 450.7	10 338.4	394.4	1.84	90	99	19 217.2		
1969 ASM....	(NA)	(NA)	360.4	2 290.8	281.2	563.6	1 547.5	4 816.2	5 263.2	10 024.4	388.9	1.80	91	103	20 035.5		
1968 ASM....	(NA)	(NA)	355.2	2 145.9	279.9	565.7	1 470.9	4 627.1	4 955.4	9 503.2	336.8	1.82	90	100	19 527.6		
1967 CENSUS.	4 938	1 620	339.8	1 905.1	268.2	535.0	1 296.1	4 067.7	4 543.0	8 605.8	347.0	1.76	86	99	19 323.2		
1966 ASM....	(NA)	(NA)	335.6	1 808.5	264.1	541.7	1 224.4	3 938.4	4 498.8	8 310.0	374.8	1.76	85	98	19 024.5		
1965 ASM....	(NA)	(NA)	317.7	1 659.8	249.8	515.1	1 134.8	3 573.6	4 149.0	7 660.0	328.1	1.76	80	92	18 010.2		
1964 ASM....	(NA)	(NA)	308.9	1 554.4	241.9	498.0	1 065.9	3 305.7	3 776.1	7 043.0	275.3	1.79	78	89	17 268.5		
1963 CENSUS.	4 543	1 573	302.1	1 432.0	239.6	480.2	992.1	3 046.3	(NA)	(NA)	231.8	1.78	76	87	16 958.4		
JOHNSON CITY-KINGSFORD-BRISTOL, TENN.-VA., SMSA																	
1977 CENSUS.	429	182	54.5	655.6	40.0	77.4	407.6	1 505.0	1 880.0	3 362.5	102.0	.28	100	100	19 596.9		
1972 CENSUS.	369	159	49.3	400.3	31.7	76.1	264.1	832.0	868.6	1 702.3	78.8	.26	91	98	19 028.7		
RICHMOND SMSA																	
1977 CENSUS.	775	292	53.4	732.8	34.5	64.8	397.0	1 992.6	2 394.6	4 359.1	126.5	.27	100	100	19 596.9		
1976 ASM....	(NA)	(NA)	51.1	623.2	34.3	65.6	366.0	1 944.0	2 123.6	4 054.3	106.5	.27	96	96	18 753.0		
1975 ASM....	(NA)	(NA)	48.6	544.4	32.1	61.5	312.4	1 430.1	1 823.6	3 263.2	140.4	.27	91	94	18 302.2		
1974 ASM....	(NA)	(NA)	51.3	523.8	34.5	64.8	303.3	1 448.4	1 688.6	3 086.1	184.4	.26	96	102	19 844.8		
1973 ASM....	(NA)	(NA)	52.1	489.2	35.1	68.5	277.6	1 229.0	1 360.7	2 583.4	175.9	.26	97	102	19 897.9		
1972 CENSUS.	685	317	50.2	447.3	33.6	66.7	251.7	1 095.5	1 203.6	2 293.5	129.1	.26	94	98	19 028.7		
1971 ASM....	(NA)	(NA)	49.0	405.2	31.2	60.7	217.2	952.2	1 081.8	2 040.2	73.6	.27	92	94	18 363.1		
1970 ASM....	(NA)	(NA)	51.2	397.6	33.4	65.7	215.2	972.5	1 070.0	2 033.3	56.3	.27	96	99	19 217.2		
1969 ASM....	(NA)	(NA)	51.9	384.2	34.1	68.5	207.5	863.6	1 066.2	1 937.5	55.2	.26	97	103	20 035.5		
1968 ASM....	(NA)	(NA)	51.6	357.7	34.6	68.5	199.5	842.7	984.9	1 830.8	44.5	.26	97	100	19 527.6		
1967 CENSUS.	595	259	51.4	337.8	34.5	68.6	186.0	777.3	965.0	1 741.1	68.6	.27	96	99	19 323.2		
1966 ASM....	(NA)	(NA)	50.6	322.8	33.4	67.9	173.6	721.7	919.4	1 624.8	75.6	.27	95	98	19 024.5		
1965 ASM....	(NA)	(NA)	49.2	300.9	32.6	66.1	164.7	640.3	894.8	1 528.6	62.2	.27	92	92	18 010.2		
1964 ASM....	(NA)	(NA)	47.1	277.1	31.2	64.2	154.4	610.0	817.3	1 429.7	57.5	.27	88	89	17 268.5		
1963 CENSUS.	577	241	46.0	256.6	31.4	62.4	146.7	558.8	(NA)	(NA)	53.6	.27	86	87	16 958.4		
WASHINGTON, D.C.-MD.-VA., SMSA																	
1977 CENSUS.	2 054	510	60.5	930.9	29.8	56.1	354.5	1 820.7	1 435.2	3 233.5	(D)	.31	100	100	19 596.9		
1976 ASM....	(NA)	(NA)	61.8	876.7	32.7	59.0	361.2	1 645.5	1 298.8	2 952.2	89.5	.33	102	96	18 753.0		
1975 ASM....	(NA)	(NA)	64.0	881.0	31.7	58.9	336.0	1 446.8	1 231.0	2 761.1	81.8	.35	106	94	18 302.2		
1974 ASM....	(NA)	(NA)	62.8	796.9	31.5	59.1	328.6	1 386.1	1 289.6	2 580.9	71.8	.32	104	102	19 844.8		
1973 ASM....	(NA)	(NA)	58.9	666.8	31.6	58.2	296.9	1 107.2	997.5	2 079.6	79.9	.30	97	102	19 897.9		
1972 CENSUS.	1 727	480	54.9	588.9	29.4	54.6	262.4	1 068.2	834.6	1 885.4	58.8	.29	92	98	19 028.7		
1971 ASM....	(NA)	(NA)	52.8	533.7	26.3	50.8	224.1	906.8	765.9	1 669.0	95.7	.29	87	94	18 363.1		
1970 ASM....	(NA)	(NA)	55.2	516.6	27.2	54.0	219.8	881.4	743.7	1 623.3	53.3	.29	91	99	19 217.2		
1969 ASM....	(NA)	(NA)	55.3	499.9	30.2	56.1	218.4	844.3	701.7	1 541.1	36.8	.29	95	103	20 035.5		
1968 ASM....	(NA)	(NA)	55.1	433.3	30.4	57.9	204.5	769.8	631.4	1 392.6	37.3	.28	91	100	19 527.6		
1967 CENSUS.	1 388	434	55.5	410.1	31.3	61.0	196.0	728.2	606.9	1 332.8	40.9	.29	92	99	19 323.2		
1966 ASM....	(NA)	(NA)	55.1	401.6	29.6	59.0	179.0	615.5	541.5	1 140.8	26.6	.29	91	98	19 024.5		
1965 ASM....	(NA)	(NA)	53.1	370.3	28.8	56.0	169.2	587.0	497.9	1 076.3	32.4	.29	88	92	18 010.2		
1964 ASM....	(NA)	(NA)	52.5	366.8	26.3	51.5	152.7	559.9	479.6	1 036.9	23.2	.30	87	89	17 268.5		
1963 CENSUS.	1 276	376	50.1	324.3	28.0	55.6	154.9	525.3	(NA)	(NA)	30.7	.30	83	87	16 958.4		

(D) Withheld to avoid disclosing operations of individual operations. (NA) Not available.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
VIRGINIA									
1977 CENSUS.....	11 241	76	1 926	5.01	55	74	27 536	41	18.70
1976 ASM.....	10 207	77	1 941	4.54	55	74	24 828	41	16.71
1975 ASM.....	9 491	76	1 891	4.29	56	76	20 791	46	14.44
1974 ASM.....	8 629	78	1 953	3.86	57	76	20 622	42	13.59
1973 ASM.....	8 015	78	1 973	3.51	54	75	17 792	45	11.58
1972 CENSUS.....	7 528	78	1 985	3.26	52	74	16 456	78	10.60
1971 ASM.....	6 983	77	1 960	3.05	52	75	14 754	47	9.79
1970 ASM.....	6 617	77	1 964	2.89	53	75	13 899	48	9.18
1969 ASM.....	6 356	78	2 004	2.75	53	75	13 363	48	8.55
1968 ASM.....	6 041	79	2 021	2.60	52	75	13 027	46	8.18
1967 CENSUS.....	5 607	79	1 995	2.42	53	75	11 971	47	7.60
1966 ASM.....	5 389	79	2 051	2.26	54	76	11 735	46	7.27
1965 ASM.....	5 224	79	2 062	2.20	54	76	11 248	46	6.94
1964 ASM.....	5 032	78	2 059	2.14	54	76	10 702	47	6.64
1963 CENSUS.....	4 740	79	2 004	2.07	(NA)	(NA)	10 084	47	6.34
JOHNSON CITY-KINGSPORT-BRISTOL, TENN.-VA., SMSA									
1977 CENSUS.....	12 035	73	1 935	5.27	56	75	27 628	44	19.44
1972 CENSUS.....	8 120	64	2 401	3.47	51	75	16 876	48	10.93
RICHMOND SMSA									
1977 CENSUS.....	13 710	65	1 878	6.13	55	72	37 283	37	30.75
1976 ASM.....	12 196	67	1 913	5.58	52	68	38 043	32	29.63
1975 ASM.....	11 202	66	1 916	5.08	56	73	29 426	38	23.25
1974 ASM.....	10 211	67	1 878	4.68	55	72	28 234	36	22.35
1973 ASM.....	9 390	67	1 952	4.05	53	72	23 589	40	17.94
1972 CENSUS.....	8 893	67	1 985	3.77	52	72	21 779	41	16.42
1971 ASM.....	8 269	64	1 946	3.58	53	73	19 433	43	15.69
1970 ASM.....	7 766	65	1 967	3.28	53	72	18 994	41	14.80
1969 ASM.....	7 403	66	2 009	3.03	55	75	16 640	44	12.61
1968 ASM.....	6 932	67	1 980	2.91	54	73	16 331	42	12.30
1967 CENSUS.....	6 572	67	1 985	2.71	55	75	15 123	43	11.33
1966 ASM.....	6 379	66	2 033	2.56	57	76	14 263	45	10.63
1965 ASM.....	6 116	66	2 028	2.49	59	78	13 014	47	9.69
1964 ASM.....	5 883	66	2 058	2.40	57	77	12 951	45	9.50
1963 CENSUS.....	5 578	68	1 987	2.35	(NA)	(NA)	12 148	46	8.96
WASHINGTON, D.C.-MD.-VA., SMSA									
1977 CENSUS.....	15 380	49	1 883	6.32	44	73	30 051	51	32.47
1976 ASM.....	14 186	53	1 804	6.12	44	74	26 626	53	27.89
1975 ASM.....	13 766	50	1 858	5.70	45	76	22 806	61	24.56
1974 ASM.....	12 689	50	1 876	5.56	50	81	22 072	57	23.45
1973 ASM.....	11 321	54	1 842	5.10	48	80	18 798	60	19.02
1972 CENSUS.....	10 592	53	1 857	4.81	44	76	19 074	56	19.42
1971 ASM.....	10 108	50	1 932	4.41	46	78	17 174	59	17.85
1970 ASM.....	9 359	49	1 985	4.07	46	78	15 967	59	16.32
1969 ASM.....	8 724	53	1 858	3.89	46	78	14 735	59	15.05
1968 ASM.....	7 864	55	1 905	3.53	45	76	13 971	56	13.30
1967 CENSUS.....	7 389	56	1 949	3.21	46	76	13 121	56	11.94
1966 ASM.....	7 259	54	1 993	3.03	47	83	11 171	65	10.43
1965 ASM.....	6 974	54	1 944	3.02	46	81	11 055	63	10.48
1964 ASM.....	6 987	50	1 958	2.97	46	82	10 655	66	10.87
1963 CENSUS.....	6 473	56	1 986	2.79	(NA)	(NA)	10 485	62	9.45

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹	number	5 519	4 837
With 1 to 19 employees	do	3 640	3 069
With 20 to 99 employees	do	1 135	1 044
With 100 employees or more	do	744	724
All employees, average for year ¹	1,000	395.2	375.4
Payroll for year, all employees ¹	mil. dollars	4 442.4	2 826.0
Production workers:			
Average for year	1,000	302.0	293.2
March	do	296.5	285.0
May	do	299.3	288.6
August	do	305.0	297.2
November	do	306.6	302.1
Hours	millions	581.8	582.9
January to March	do	142.7	142.0
April to June	do	146.5	145.1
July to September	do	145.7	145.5
October to December	do	146.8	150.4
Wages	mil. dollars	2 916.8	1 902.1
Cost of materials, etc. ²	do	13 233.5	6 716.7
Materials, parts, containers, etc., consumed	do	11 764.0	5 991.1
Resales	do	620.3	381.2
Fuels consumed	do	358.5	127.6
Purchased electric energy	do	263.9	91.7
Contract work	do	226.8	125.0
Value of shipments, including resales ²	do	23 988.6	12 823.5
Value of resales	do	721.0	461.5
Value added by manufacture	do	10 882.0	6 177.5
Manufacturers' inventories:			
Beginning of year	do	4 182.2	2 273.9
Finished products	do	831.8	521.5
Work in process	do	801.5	402.0
Materials, supplies, fuel, etc.	do	2 548.9	1 350.4
End of year	do	4 483.8	2 612.0
Finished products	do	904.0	548.4
Work in process	do	879.1	495.3
Materials, supplies, fuel, etc.	do	2 700.7	1 568.3
Capital expenditures for plant and equipment	do	1 000.9	607.3
New capital expenditures	do	953.0	585.8
New buildings and other structures	do	173.2	177.4
New machinery and equipment	do	779.8	408.4
Used capital expenditures	do	47.9	21.5

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Including central administrative offices and auxiliaries (for definition, see appendix B).

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	111.2	3
Beginning of year.....	7,828.1	1	Buildings and other structures.....	40.8	4
New capital expenditures.....	966.2	2	Machinery and equipment.....	70.3	3
Used capital expenditures.....	(58.9)	15			
Retirements.....	228.6	2	Depreciation charges during 1977:		
End of year.....	8,624.6	1	Total.....	661.0	1
Buildings and other structures:			Buildings and other structures.....	248.3	1
Beginning of year.....	2,178.6	1	Machinery and equipment.....	412.7	2
New capital expenditures.....	174.3	3			
Used capital expenditures.....	(18.5)	46	Supplemental labor costs:		
Retirements.....	60.7	2	Total.....	745.8	1
End of year.....	2,310.8	1	Legal costs.....	302.4	1
Machinery and equipment:			Voluntary costs.....	443.4	1
Beginning of year.....	5,649.4	1			
New capital expenditures.....	791.9	2	Purchased services:		
Automobiles, trucks, etc., for highway use...	32.0	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	9.7	(NA)	Buildings and other structures.....	45.3	6
All other.....	561.4	(NA)	Response coverage ratio (percent).....	59	(X)
New machinery and equipment, n.s.k.	188.8	(NA)	Machinery.....	(141.2)	(A)
Used capital expenditures.....	40.4	5	Response coverage ratio (percent).....	59	(X)
Retirements.....	168.0	2	Cost of purchased communication services.....	(79.7)	44
End of year.....	6,313.7	1	Response coverage ratio (percent).....	65	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

(A) Indicates standard errors of 100 percent or more. Figures in parentheses have standard errors of 15 percent or more.

(NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972		
		All establishments ²		All employees ²		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
Virginia -----	-	5 519	1 879	395.2	4 442.4	302.0	581.8	2 916.8	10 882.0	13 233.5	23 988.6	953.0	375.4	6 177.5
STANDARD METROPOLITAN STATISTICAL AREAS														
Johnson City-Kingsport-Bristol, Tenn.-Va.-----	E1	429	182	54.5	655.6	40.0	77.4	407.6	1 505.0	1 880.0	3 362.5	102.0	49.3	832.0
Portion in Virginia-----	E1	119	55	8.7	94.6	6.6	12.8	63.2	217.4	348.7	563.1	19.8	6.4	91.2
Portion in Tennessee-----	E1	310	127	45.8	560.9	33.4	64.7	344.4	1 287.6	1 531.2	2 799.4	82.3	42.9	740.8
Lynchburg-----	-	264	103	27.3	317.7	18.8	37.0	186.4	708.8	533.3	1 242.4	40.9	24.4	391.6
Newport News-Hampton-----	-	218	73	34.3	447.3	28.5	55.9	362.8	667.1	963.4	1 631.2	54.4	35.6	461.4
Norfolk-Virginia Beach-Portsmouth, Va.-N.C.-----	-	537	190	26.7	326.2	19.4	38.9	211.3	1 083.3	1 850.2	2 950.9	50.1	27.6	551.7
Portion in Virginia-----	-	531	189	26.6	325.6	19.4	38.8	210.8	1 079.4	1 840.8	2 937.1	50.1	27.5	550.1
Portion in North Carolina-----	-	6	1	0.1	0.6	0.1	0.1	0.4	4.0	9.5	13.7	(Z)	0.1	1.6
Petersburg-Colonial Heights-Hopewell-----	-	108	45	11.5	155.2	9.0	16.2	114.1	660.6	577.5	1 227.2	96.0	12.1	369.7
Richmond-----	-	775	292	53.4	732.8	34.5	64.8	397.0	1 992.6	2 394.6	4 359.1	126.5	50.2	1 095.5
Roanoke-----	-	251	109	20.4	225.2	14.8	28.3	138.0	511.0	476.3	983.0	35.1	20.9	344.7
Washington, D.C.-Md.-Va.-----	-	2 054	510	60.5	930.9	29.8	56.1	354.5	1 820.7	1 435.2	3 233.5	(D)	54.9	1 068.2
Portion in Maryland-----	-	884	229	25.8	383.7	14.0	26.7	159.6	625.5	696.4	1 330.8	(D)	22.1	404.0
Portion in District of Columbia-----	E1	555	130	18.6	297.6	7.5	13.3	102.3	610.2	377.7	984.4	18.1	19.4	389.0
Portion in Virginia-----	E1	615	151	16.2	249.5	8.3	16.1	92.6	585.0	361.1	918.3	26.5	13.4	275.2
COUNTIES														
Accomack-----	-	63	18	3.6	23.7	3.2	5.1	18.8	55.8	151.4	218.5	4.5	2.6	21.8
Albemarle-----	-	30	9	4.1	43.6	3.1	6.5	28.4	118.8	146.4	262.0	(D)	3.3	56.2
Alleghany-----	-	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Amelia-----	E2	21	6	0.4	2.7	0.4	0.6	2.2	6.3	4.7	11.0	0.9	0.3	3.2
Amherst-----	-	32	7	0.7	9.3	0.4	0.8	4.4	16.6	22.1	38.5	(D)	(D)	(D)
Appomattox-----	-	29	8	1.2	8.4	1.0	1.9	6.9	14.5	15.8	30.4	(D)	0.9	10.7
Arlington-----	E2	110	22	1.3	19.5	0.7	1.3	7.8	25.0	13.8	38.9	1.8	1.4	19.1
Augusta-----	-	58	13	2.8	30.7	2.4	4.9	21.9	58.6	54.3	109.9	1.5	3.2	37.6
Bath-----	E2	8	2	0.2	1.1	0.1	0.3	0.8	1.6	0.6	2.2	0.1	0.1	0.7
Bedford-----	-	25	4	0.7	7.9	0.5	1.0	5.6	23.8	26.6	50.4	(D)	0.8	14.5
Bland-----	-	8	3	0.5	3.2	0.4	0.9	2.6	5.7	3.0	8.1	(D)	0.3	1.8
Botetourt-----	-	18	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Brunswick-----	E2	62	13	1.5	9.7	1.3	2.3	7.8	18.5	20.6	39.0	(D)	1.4	10.8
Buchanan-----	-	25	6	0.4	5.7	0.3	0.6	4.6	16.9	21.7	37.8	(D)	0.3	6.3
Buckingham-----	E1	57	6	0.5	3.5	0.5	0.9	2.8	8.2	7.0	15.1	0.6	0.6	4.5
Campbell-----	-	69	18	5.5	43.1	4.5	8.5	31.0	123.2	99.4	221.2	8.6	4.3	61.8
Caroline-----	E1	29	10	0.8	5.6	0.7	1.2	4.5	12.0	23.5	35.4	(D)	0.7	9.1
Carroll-----	-	25	9	1.8	13.6	1.7	3.2	12.1	24.8	27.2	51.1	0.7	1.1	14.7
Charles City-----	E3	5	-	(Z)	0.1	(Z)	(Z)	0.1	0.3	0.1	0.5	(D)	(Z)	(NA)
Charlotte-----	-	55	7	1.9	15.8	1.6	3.2	11.3	25.9	38.5	65.2	4.1	1.0	8.1
Chesterfield-----	-	91	35	7.4	109.3	5.2	9.9	69.5	240.4	359.3	593.4	16.4	16.3	374.3
Clarke-----	-	9	4	1.1	9.6	0.9	1.7	6.4	15.1	14.5	29.5	0.6	(D)	(D)
Craig-----	E4	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Culpeper-----	-	36	12	1.4	13.4	1.1	2.1	8.6	38.5	55.6	91.8	3.9	1.3	15.8
Cumberland-----	E3	12	-	(Z)	0.2	(Z)	(Z)	0.2	0.7	0.8	1.5	0.1	(Z)	(NA)
Dickenson-----	-	7	1	0.3	1.5	0.2	0.4	1.3	2.3	0.9	3.2	(D)	0.2	1.9
Dinwiddie-----	-	16	4	0.5	3.2	0.4	0.7	2.6	9.2	11.5	20.7	(D)	0.6	4.3
Essex-----	E1	27	6	1.2	9.4	1.0	1.8	7.1	13.5	28.1	40.0	1.7	0.8	13.2
Fairfax-----	-	261	69	7.6	107.8	4.3	8.4	48.7	193.3	158.4	345.9	11.5	6.0	103.9
Fauquier-----	E2	32	7	0.4	5.2	0.3	0.6	3.1	10.0	17.8	27.9	1.0	0.3	4.7
Floyd-----	E4	22	5	0.5	3.5	0.5	0.9	3.2	5.2	3.1	8.3	(D)	0.5	3.1
Fluvanna-----	-	24	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	10.5
Franklin-----	-	57	23	4.4	37.1	3.7	6.7	26.0	76.7	124.5	200.3	5.1	3.2	38.3
Frederick-----	-	13	6	1.5	20.1	1.3	2.9	17.0	52.9	99.4	150.7	3.3	1.4	11.9
Giles-----	-	19	9	2.7	32.4	2.2	4.6	24.8	90.7	93.3	182.1	5.5	2.7	47.4
Gloucester-----	E3	32	6	0.3	2.4	0.3	0.4	1.7	3.7	7.6	11.2	0.3	0.3	3.3
Goochland-----	E7	16	1	0.1	0.5	0.1	0.1	0.4	1.1	0.7	1.8	(D)	(Z)	(NA)
Grayson-----	-	14	8	2.0	11.7	1.8	3.1	9.9	20.0	23.2	43.0	0.5	2.5	18.3
Greene-----	E0	3	-	(Z)	(Z)	(Z)	(Z)	(Z)	0.1	0.1	0.1	(Z)	(D)	(D)
Greensville-----	-	4	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Halifax-----	-	25	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hanover-----	E3	81	22	1.8	18.9	1.3	2.4	11.0	29.7	45.8	75.0	4.6	1.2	12.3
Henrico-----	-	143	55	9.2	128.5	5.3	10.1	55.6	258.1	253.2	515.3	22.6	4.0	57.4
Henry-----	-	55	26	11.2	99.6	9.9	21.0	80.1	269.4	269.1	532.1	14.9	12.4	215.1
Highland-----	-	5	2	0.2	1.2	0.2	0.3	1.1	2.0	1.2	3.2	(D)	0.2	1.5
Isle of Wight-----	-	20	8	3.9	38.5	3.0	4.6	25.3	82.1	246.9	328.9	7.9	2.9	45.4
James City-----	-	9	4	0.3	2.4	0.3	0.6	2.0	4.6	5.0	9.4	0.5	(D)	(D)
King and Queen-----	E8	24	-	0.1	0.7	0.1	0.1	0.5	1.3	2.2	3.5	0.2	0.1	0.6
King George-----	-	11	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.7
King William-----	-	25	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Lancaster-----	E1	41	13	0.7	4.7	0.6	1.0	3.2	10.9	19.8	30.8	0.7	0.5	2.9
Lee-----	E2	15	6	0.6	3.3	0.5	0.9	2.9	4.8	4.5	9.2	0.2	0.3	1.5
Loudoun-----	E1	37	11	0.6	7.1	0.4	0.8	4.3	21.8	12.6	34.6	(D)	0.4	8.1
Louisa-----	E1	45	10	1.2	7.8	1.1	2.0	6.7	17.0	9.9	26.7	(D)	1.4	9.8
Lunenburg-----	-	36	13	2.0	14.2	1.9	3.3	11.7	29.5	46.2	75.6	1.2	1.7	14.5
Madison-----	-	15	3	0.4	2.3	0.4	0.6	2.0	11.2	1.8	13.0	(D)	0.4	2.5
Mathews-----	E3	10	2	0.1	0.7	0.1	0.2	0.5	1.0	0.8	1.7	(Z)	(Z)	(NA)
Mecklenburg-----	-	57	23	5.3	40.3	4.6	8.5	28.9	95.3	193.0	286.2	4.4	5.1	47.4
Middlesex-----	E1	26	7	0.3	2.4	0.3	0.5	1.9	5.3	8.5	13.8	0.4	0.2	2.7
Montgomery-----	-	38	16	3.2	30.3	2.5	5.1	20.3	66.5	74.2	139.4	2.4	2.3	29.7
Nelson-----	E3	32	3	0.3	2.4	0.3	0.5	2.0	3.8	3.1	6.8	0.5	0.3	2.3
New Kent-----	E3	24	2	0.2	1.3	0.1	0.2	1.0	1.9	3.9	5.8	0.2	0.2	1.2
Northampton-----	-	20	9	1.1	6.4	1.0	1.7	4.3	12.2	24.2	36.3	(D)	1.0	11.6
Northumberland-----	-	36	6	0.8	8.2	0.8	1.3	5.7	24.5	24.2	46.7	1.8	0.7	8.0
Nottoway-----	E1	32	12	1.2	8.7	1.1	2.1	7.4	17.4	29.2	46.1	1.7	1.0	9.7

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972			
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital ex- penditures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)							
COUNTIES—Con.															
Orange	-	28	12	1.9	15.6	1.7	3.2	12.1	44.8	32.7	77.2	3.8	2.1	26.0	
Page	-	22	10	2.2	17.1	1.9	3.6	13.6	73.2	104.7	172.6	3.3	2.0	39.6	
Patrick	-	44	6	1.8	15.6	1.6	3.4	12.1	29.7	29.9	59.0	1.2	(D)	(D)	
Pittsylvania	-	55	18	7.0	84.2	5.6	11.5	60.9	219.1	507.4	728.1	29.8	4.6	104.9	
Powhatan	E1	12	4	0.1	1.2	0.1	0.2	1.0	2.2	1.5	3.7	0.2	0.1	1.2	
Prince Edward	-	27	8	1.3	9.0	1.1	2.0	6.9	19.8	19.0	38.8	3.1	1.6	11.7	
Prince George	E1	11	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.3	
Prince William	-	38	9	1.0	14.1	0.8	1.6	8.9	27.5	24.6	50.9	0.9	2.9	101.1	
Pulaski	-	43	24	5.9	51.7	4.9	9.9	38.2	102.5	289.6	389.7	7.4	5.4	63.4	
Rappahannock	-	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Richmond	-	20	6	0.6	4.4	0.5	0.9	3.6	16.6	17.1	33.6	0.6	0.6	8.0	
Roanoke	-	51	23	3.2	36.2	2.3	4.7	23.3	84.0	85.0	169.7	13.6	1.6	26.0	
Rockbridge	-	19	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Rockingham	-	69	25	5.2	49.9	4.3	8.3	36.8	153.5	272.8	421.2	25.1	4.8	73.7	
Russell	E2	16	6	1.1	6.2	1.0	1.8	5.4	8.8	3.5	12.2	0.4	1.0	5.8	
Scott	-	19	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Shenandoah	-	46	23	4.0	33.0	3.4	6.6	24.9	77.8	124.0	201.8	6.6	3.8	49.0	
Smyth	-	42	17	4.7	36.9	4.0	6.9	25.1	75.2	71.2	148.3	6.6	5.3	39.8	
Southampton	-	23	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Spotsylvania	-	20	7	1.8	22.0	1.4	2.8	15.4	44.8	68.3	111.8	4.5	0.6	9.1	
Stafford	-	14	3	0.2	1.5	0.1	0.3	1.2	3.5	13.8	17.3	0.2	0.1	0.7	
Surry	E5	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Sussex	E1	23	6	0.8	8.1	0.6	1.4	6.3	19.2	31.6	51.3	1.4	0.6	8.2	
Tazewell	-	57	22	2.4	25.4	1.8	3.3	15.8	44.0	77.3	125.6	4.7	2.6	29.4	
Warren	-	18	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	44.4	
Washington	-	41	15	2.6	25.3	2.1	3.8	17.6	60.4	85.4	147.1	8.6	(D)	(D)	
Westmoreland	E2	38	12	0.7	4.5	0.6	0.9	3.3	9.7	17.5	27.0	(D)	0.7	6.9	
Wise	E1	29	8	0.7	6.2	0.6	1.0	3.9	11.5	16.4	27.6	0.5	0.9	5.8	
Wythe	-	34	15	2.1	15.5	1.8	3.5	11.7	35.2	31.0	64.5	4.4	1.6	16.3	
York	-	15	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Alexandria (independent city)	E1	97	25	2.4	34.0	1.4	2.6	15.5	169.7	90.5	258.5	2.1	2.3	38.4	
Bedford (independent city)	-	31	12	2.6	23.5	2.0	3.8	16.1	54.4	47.6	101.7	(D)	2.5	32.8	
Bristol (independent city)	-	59	32	5.4	63.7	4.0	7.9	41.6	133.2	233.9	364.6	8.6	4.4	69.8	
Buena Vista (independent city)	E1	15	10	1.5	15.3	1.2	2.4	10.5	48.1	65.3	112.6	2.3	1.4	29.1	
Charlottesville (independent city)	-	68	20	3.4	37.7	2.4	4.5	20.7	70.8	79.5	146.8	5.0	4.0	62.4	
Chesapeake (independent city)	-	61	28	3.1	34.4	2.4	4.4	23.8	89.1	212.5	298.3	7.8	2.1	42.8	
Clifton Forge (independent city)	-	8	1	0.1	1.0	0.1	0.1	0.4	1.9	1.3	3.3	0.1	0.3	2.5	
Colonial Heights (independent city)	-	10	5	0.4	4.1	0.3	0.6	2.2	15.3	10.8	23.3	(D)	0.1	3.0	
Covington (independent city)	-	20	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Danville (independent city)	-	69	26	12.1	114.5	10.0	20.5	84.0	192.0	207.0	394.1	16.3	13.2	137.5	
Emporia (independent city)	-	39	14	1.8	14.5	1.5	3.0	11.2	50.2	53.1	101.3	(D)	1.4	29.2	
Fairfax (independent city)	E2	28	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	2.7	
Falls Church (independent city)	E4	26	4	0.2	2.4	0.2	0.2	1.3	4.7	3.2	7.8	0.1	0.1	1.8	
Franklin (independent city)	-	15	9	0.7	6.8	0.6	1.1	5.0	39.3	31.2	69.7	1.7	0.8	22.6	
Fredericksburg (independent city)	-	38	15	1.4	12.8	1.2	2.2	9.4	27.8	42.8	69.6	1.1	3.0	69.4	
Galax (independent city)	-	45	16	4.8	32.7	4.5	8.1	26.8	61.3	79.1	138.8	2.4	4.0	41.7	
Hampton (independent city)	-	70	24	2.6	26.0	2.0	3.9	16.4	50.6	55.9	106.0	2.7	3.2	35.4	
Harrisonburg (independent city)	-	45	23	3.6	33.2	2.8	5.5	22.5	89.3	136.2	226.2	6.6	4.2	79.4	
Hopewell (independent city)	-	20	8	4.8	78.1	3.4	6.8	54.0	263.5	298.5	556.4	56.8	4.5	150.0	
Lexington (independent city)	-	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)	
Lynchburg (independent city)	-	135	70	19.9	256.9	12.9	25.7	144.1	554.5	395.9	952.4	25.0	18.7	316.3	
Manassas (independent city)	-	17	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Manassas Park (independent city)	-	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Martinsville (independent city)	-	66	30	14.4	143.0	12.1	22.5	99.7	261.7	248.7	507.2	15.7	12.2	131.6	
Newport News (independent city)	-	78	32	28.9	382.1	24.8	48.7	325.2	555.8	446.8	1 004.7	(D)	30.1	352.9	
Norfolk (independent city)	-	245	90	13.5	183.8	9.4	19.9	119.7	539.6	983.8	1 519.5	23.5	12.7	234.4	
Norton (independent city)	-	6	4	0.2	2.1	0.1	0.3	0.9	6.3	7.6	13.9	0.3	0.3	3.1	
Petersburg (independent city)	-	51	24	5.6	68.6	4.7	7.9	54.2	368.6	254.7	621.2	36.1	6.7	211.1	
Poquoson (independent city)	E2	5	(Z)	0.2	(Z)	(Z)	(Z)	0.1	0.4	0.5	0.8	(Z)	(NA)	(NA)	
Portsmouth (independent city)	-	65	23	2.3	27.8	1.6	3.0	14.6	61.6	110.3	172.3	5.8	8.2	152.5	
Radford (independent city)	-	21	11	5.8	71.0	4.5	8.5	48.2	150.5	80.4	230.3	(D)	7.2	94.4	
Richmond (independent city)	-	403	173	34.8	473.0	22.4	41.8	258.4	1 459.0	1 730.0	3 163.6	82.5	28.6	650.0	
Roanoke (independent city)	-	127	57	9.7	96.5	7.1	13.3	60.6	219.5	189.8	406.4	11.1	10.9	163.1	
Salem (independent city)	-	51	22	7.0	88.6	4.9	9.4	51.3	197.9	195.5	391.8	10.0	7.5	139.1	
South Boston (independent city)	-	19	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	40.5	
Staunton (independent city)	-	18	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	12.0	
Suffolk (independent city)	-	75	34	6.6	69.1	5.2	9.9	46.7	369.7	465.7	855.5	10.6	3.2	101.9	
Virginia Beach (independent city)	E1	85	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	16.0	
Waynesboro (independent city)	-	35	19	7.6	104.8	5.2	10.1	59.2	238.0	160.0	393.2	32.3	7.1	148.4	
Williamsburg (independent city)	-	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Winchester (independent city)	-	59	26	6.3	67.5	4.9	9.5	45.9	155.0	167.8	321.5	11.8	4.4	82.6	
CITIES															
Abingdon	-	23	5	0.7	5.1	0.6	1.1	3.7	10.0	15.7	25.6	0.3	(D)	(D)	
Alexandria	E1	97	25	2.4	34.0	1.4	2.6	15.5	169.7	90.5	258.5	2.1	(NA)	(NA)	
Altavista	-	15	10	4.1	32.5	3.2	6.2	22.4	95.5	63.5	157.8	6.5	3.2	45.8	
Arlington (U)	E2	110	22	1.3	19.5	0.7	1.3	7.8	25.0	13.8	38.9	1.8	1.4	19.1	
Ashland	E4	34	7	0.6	5.0	0.5	0.9	3.5	12.1	16.0	28.1	0.8	0.5	5.5	
Bedford	-	31	12	2.6	23.5	2.0	3.8	16.1	54.4	47.6	101.7	(D)	(NA)	(NA)	
Blacksburg	-	13	4	1.4	14.4	1.1	2.3	10.3	31.3	15.9	46.1	1.5	(D)	(D)	
Blackstone	E1	22	9	0.9	6.2	0.8	1.5	5.2	12.6	12.0	24.2	1.6	0.8	8.4	
Bluefield	-	22	12	0.8	9.1	0.6	1.2	5.7	18.8	28.2	47.6	1.5	1.0	15.0	
Bridgewater	-	13	6	1.1	8.2	1.0	1.9	7.2	23.4	35.7	60.2	0.8	1.1	11.7	

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972			
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital ex- penditures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)							
CITIES—Con.															
Bristol	-	59	32	5.4	63.7	4.0	7.9	41.6	133.2	233.9	364.6	8.6	(NA)	(NA)	
Buena Vista	E1	15	10	1.5	15.3	1.2	2.4	10.5	48.1	65.3	112.6	2.3	(NA)	(NA)	
Charlottesville	-	68	20	3.4	37.7	2.4	4.5	20.7	70.8	79.5	146.8	5.0	(NA)	(NA)	
Chase City	-	16	7	1.3	7.2	1.2	2.3	6.2	16.6	14.5	31.5	(D)	1.4	9.1	
Chesapeake	-	61	28	3.1	34.4	2.4	4.4	23.8	89.1	212.5	298.3	7.8	(NA)	(NA)	
Christiansburg	-	19	10	1.5	11.1	1.1	2.2	7.2	23.1	41.0	62.4	0.6	(NA)	(NA)	
Covington	-	20	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Culpeper	-	29	12	1.4	12.8	1.1	2.1	8.4	37.7	53.7	89.0	3.9	1.2	15.4	
Danville	-	69	26	12.1	114.5	10.0	20.5	84.0	192.0	207.0	394.1	16.3	(NA)	(NA)	
Emporia	-	39	14	1.8	14.5	1.5	3.0	11.2	50.2	53.1	101.3	(D)	(NA)	(NA)	
Farmville	-	24	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	10.4	
Franklin	-	15	9	0.7	6.8	0.6	1.1	5.0	39.3	31.2	69.7	1.7	(NA)	(NA)	
Fredericksburg	-	38	15	1.4	12.8	1.2	2.2	9.4	27.8	42.8	69.6	1.1	(NA)	(NA)	
Front Royal	-	16	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Galax	-	45	16	4.8	32.7	4.5	8.1	26.8	61.3	79.1	138.8	2.4	(NA)	(NA)	
Hampton	-	70	24	2.6	26.0	2.0	3.9	16.4	50.6	55.9	106.0	2.7	(NA)	(NA)	
Harrisonburg	-	45	23	3.6	33.2	2.8	5.5	22.5	89.3	136.2	226.2	6.6	(NA)	(NA)	
Hopewell	-	20	8	4.8	78.1	3.4	6.8	54.0	263.5	298.5	556.4	56.8	(NA)	(NA)	
Jefferson (U)	-	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Luray	-	16	5	1.4	11.4	1.2	2.1	8.9	52.2	80.5	128.3	(D)	1.2	32.6	
Lynchburg	-	134	70	19.9	256.9	12.9	25.7	144.0	554.5	395.9	952.4	25.0	(NA)	(NA)	
Manassas	-	17	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Marion	-	23	10	2.9	23.7	2.3	4.1	15.6	52.4	44.4	97.4	5.0	3.2	24.3	
Martinsville	-	66	30	14.4	143.0	12.1	22.5	99.7	261.7	248.7	507.2	15.7	(NA)	(NA)	
Newport News	-	78	32	28.9	382.1	24.8	48.7	325.2	555.8	446.8	1 004.7	(D)	(NA)	(NA)	
Norfolk	-	245	90	13.5	183.8	9.4	19.9	119.7	539.6	983.8	1 519.5	23.5	(NA)	(NA)	
Orange	-	15	8	1.3	9.4	1.1	2.0	7.1	29.1	17.1	45.9	(D)	0.8	7.4	
Petersburg	-	51	24	5.6	68.6	4.7	7.9	54.2	368.6	254.7	621.2	36.1	(NA)	(NA)	
Portsmouth	-	65	23	2.3	27.8	1.6	3.0	14.6	61.6	110.3	172.3	5.8	(NA)	(NA)	
Pulaski	-	27	15	3.3	27.3	2.9	5.5	21.0	53.5	63.7	118.7	(D)	(D)	(D)	
Radford	-	21	11	5.8	71.0	4.5	8.5	48.2	150.5	80.4	230.3	(D)	(NA)	(NA)	
Richlands	E1	16	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	4.5	
Richmond	-	403	173	34.8	473.0	22.4	41.8	258.4	1 459.0	1 730.0	3 163.6	82.5	(NA)	(NA)	
Roanoke	-	127	57	9.7	96.5	7.1	13.3	60.6	219.5	189.8	406.4	11.1	(NA)	(NA)	
Rocky Mount	-	32	16	3.6	30.3	3.1	5.7	21.8	62.2	93.1	154.2	4.7	2.3	26.5	
Salem	-	51	22	7.0	88.6	4.9	9.4	51.3	197.9	195.5	391.8	10.0	(NA)	(NA)	
Smithfield	-	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
South Boston	-	19	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
South Hill	-	15	8	0.9	7.4	0.7	1.3	4.8	14.8	24.5	39.2	0.7	0.7	5.3	
Staunton	-	18	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Suffolk	-	75	34	6.6	69.1	5.2	9.9	46.7	369.7	465.7	855.5	10.6	(NA)	(NA)	
Vienna	-	17	3	0.6	7.1	0.5	1.0	5.4	12.0	5.8	17.1	0.5	(NA)	(NA)	
Vinton	-	9	3	0.7	6.6	0.6	1.3	5.5	15.0	27.4	42.3	(D)	(D)	(D)	
Virginia Beach	E1	85	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Waynesboro	-	35	19	7.6	104.8	5.2	10.1	59.2	238.0	160.0	393.2	32.3	(NA)	(NA)	
West Point	-	14	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Williamsburg	-	9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Winchester	-	59	26	6.3	67.5	4.9	9.5	45.9	155.0	167.8	321.5	11.8	(NA)	(NA)	
Wytheville	-	19	11	1.6	12.1	1.3	2.6	8.8	29.6	27.4	55.5	3.8	1.4	14.6	

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expen- ditures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	All Industries -----	-	5 519	1 879	395.2	4 442.4	302.0	581.8	2 916.8	10 882.0	13 233.5	23 988.6	953.0	375.4	6 177.5
20	Food and kindred products -----	-	543	263	35.0	335.6	25.7	47.6	207.1	1 203.6	2 396.9	3 599.8	70.9	33.6	610.7
201	Meat products -----	-	75	37	11.2	96.0	9.5	17.2	74.1	198.5	803.4	1 001.1	13.1	9.5	127.2
2011	Meat packing plants -----	-	43	14	4.7	48.1	3.8	6.5	36.4	88.2	407.8	495.8	6.8	4.2	63.6
2013	Sausages and other prepared meats -----	-	17	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2016	Poultry dressing plants -----	-	13	12	5.7	40.8	5.1	9.5	33.7	92.2	341.7	433.4	5.6	4.3	49.4
2017	Poultry and egg processing --	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
202	Dairy products -----	-	38	28	2.3	28.2	0.9	2.1	9.6	102.6	255.6	357.4	6.0	3.0	60.1
2024	Ice cream and frozen desserts -----	-	7	4	0.2	3.5	0.1	0.2	1.3	5.5	22.3	27.8	(D)	0.3	4.8
2026	Fluid milk -----	-	28	21	1.9	22.7	0.7	1.5	6.7	62.3	189.7	251.5	3.6	2.5	49.9
203	Preserved fruits and vegetables -----	-	41	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	53.8
2033	Canned fruits and vegetables -----	-	30	9	1.6	11.9	1.4	2.6	7.4	28.8	48.2	77.0	3.3	EE	(D)
2038	Frozen specialties -----	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
204	Grain mill products -----	-	57	17	1.0	10.3	0.7	1.4	6.2	43.6	219.3	263.0	2.3	1.0	20.3
2041	Flour and other grain mill products -----	E1	18	4	0.2	2.5	0.2	0.3	1.8	16.2	52.1	68.4	0.1	BB	(D)
2048	Prepared feeds, n.e.c. -----	-	33	12	0.7	7.0	0.5	0.9	3.9	25.9	164.8	190.6	2.1	0.7	13.9
205	Bakery products -----	-	43	28	4.4	52.3	3.0	5.7	30.9	162.6	123.2	286.4	14.0	4.6	81.4
2051	Bread, cake, and related products -----	-	38	23	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2052	Cookies and crackers -----	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
206	Sugar and confectionery products -----	-	19	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	71.0
2065	Confectionery products -----	-	19	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
207	Fats and oils -----	-	13	9	0.7	9.5	0.6	1.1	5.6	47.6	147.8	191.0	2.2	0.5	18.2
2077	Animal and marine fats and oils -----	-	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
208	Beverages -----	-	61	43	3.8	47.5	1.7	3.6	19.4	182.0	249.3	429.7	11.1	3.8	85.7
2082	Malt beverages -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2086	Bottled and canned soft drinks -----	-	48	38	3.1	35.2	1.2	2.6	11.0	120.1	157.5	276.8	(D)	3.2	49.1
209	Miscellaneous foods and kindred products -----	E1	196	77	5.8	42.2	4.7	7.5	26.7	165.8	256.2	422.6	10.0	4.5	93.0
2092	Fresh or frozen packaged fish -----	E1	121	53	3.3	16.9	2.9	4.1	12.5	40.9	101.0	141.8	2.7	2.3	14.8
2099	Food preparations, n.e.c. -----	E1	48	19	2.2	22.9	1.6	3.1	13.0	120.1	143.9	264.8	6.8	1.5	70.8
21	Tobacco products -----	-	19	16	14.9	206.2	11.4	19.7	145.2	1 100.0	1 312.3	2 412.1	(D)	14.3	580.5
2111	Cigarettes -----	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2131	Chewing and smoking tobacco --	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2141	Tobacco stemming and redrying -----	-	11	10	2.1	21.7	1.7	3.1	14.9	37.6	437.0	474.2	(D)	2.5	36.0
22	Textile mill products --	-	100	82	43.0	382.8	37.9	75.6	303.0	850.1	1 182.7	1 996.8	94.3	44.0	522.8
2211	Weaving mills, cotton -----	-	6	5	3.1	26.2	2.8	5.6	22.7	57.1	62.8	118.8	6.0	FF	(D)
2221	Weaving mills, manmade fiber and silk -----	-	17	16	14.5	139.8	12.9	26.6	113.0	268.4	325.0	586.7	42.1	FF	(D)
2231	Weaving and finishing mills, wool -----	-	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2241	Narrow fabric mills -----	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
225	Knitting mills -----	-	29	24	11.8	90.0	10.5	19.7	69.7	212.5	183.7	389.8	9.6	13.9	127.0
2251	Women's hosiery, except socks -----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	11.2
2252	Hosiery, n.e.c. -----	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	5.4
2253	Knit outerwear mills -----	-	10	10	7.1	51.8	6.3	11.2	38.0	151.1	90.7	237.2	4.2	6.6	52.3
2254	Knit underwear mills -----	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2257	Circular knit fabric mills -----	-	5	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2258	Warp knit fabric mills -----	-	4	3	1.0	8.7	0.9	1.9	7.5	13.5	33.5	47.3	(D)	CC	(D)
226	Textile finishing, except wool --	-	13	10	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.3	76.3
2261	Finishing plants, cotton -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2262	Finishing plants, synthetics --	-	9	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2269	Finishing plants, n.e.c. -----	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
227	Floor covering mills -----	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2272	Tufted carpets and rugs -----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
228	Yarn and thread mills -----	-	12	11	3.7	29.6	3.5	6.8	25.9	50.3	85.9	135.6	(D)	3.7	72.7
2281	Yarn mills, except wool -----	-	6	5	1.0	8.2	0.9	1.9	7.1	15.6	32.9	47.9	0.8	0.8	10.3
2282	Throwing and winding mills --	-	6	6	2.7	21.4	2.5	4.9	18.8	34.8	52.9	87.7	(D)	2.9	62.4
229	Miscellaneous textile goods ---	-	8	5	0.6	5.8	0.6	1.1	4.9	14.7	41.0	56.2	1.4	0.8	7.3
2296	Tire cord and fabric -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
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[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
23	Apparel and other textile products -----	-	287	214	37.0	232.6	33.8	59.3	194.7	475.8	324.2	788.5	13.8	37.4	280.6
2311	Men's and boys' suits and coats -----	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.8	28.0
232	Men's and boys' furnishings ---	-	60	52	12.0	75.6	11.2	20.1	64.5	230.7	146.9	368.3	(D)	11.1	86.1
2321	Men's and boys' shirts and nightwear -----	-	28	25	5.1	32.3	4.8	8.8	27.1	67.1	41.0	104.8	1.8	FF	(D)
2322	Men's and boys' underwear ---	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2327	Men's and boys' separate trousers -----	-	9	7	1.9	11.1	1.8	3.0	9.9	26.9	7.9	35.6	0.8	2.8	17.7
2328	Men's and boys' work clothing -----	-	17	16	4.2	26.8	3.8	7.0	23.4	128.6	93.4	216.0	(D)	4.0	43.2
2329	Men's and boys' clothing, n.e.c. -----	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
233	Women's and misses' outerwear -----	-	102	87	12.6	72.1	11.7	19.7	62.8	103.5	35.3	139.1	(D)	12.9	91.7
2331	Women's and misses' blouses and waists -----	-	27	26	4.1	23.8	4.0	7.0	22.7	33.2	2.8	36.0	0.4	FF	(D)
2335	Women's and misses' dresses -----	E1	38	25	3.4	18.6	3.1	4.7	14.7	29.3	10.3	40.2	0.6	FF	(D)
2337	Women's and misses' suits and coats -----	-	7	7	0.8	4.4	0.7	1.2	3.6	6.7	1.9	8.4	(D)	CC	(D)
2339	Women's and misses' outerwear, n.e.c. -----	E1	30	29	4.2	25.3	3.9	6.7	21.8	34.2	20.3	54.4	1.2	4.5	27.3
234	Women's and children's undergarments -----	-	12	11	2.3	13.9	2.1	3.6	11.6	22.6	7.5	29.7	(D)	2.4	14.3
2341	Women's and children's underwear -----	-	12	11	2.3	13.9	2.1	3.6	11.6	22.6	7.5	29.7	(D)	2.4	14.3
235	Hats, caps, and millinery -----	-	8	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	3.4
2352	Hats and caps, except millinery -----	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
236	Children's outerwear -----	-	32	29	4.5	26.6	3.8	6.7	21.4	35.1	28.1	62.5	(D)	3.6	28.6
2361	Children's dresses and blouses -----	E1	24	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2369	Children's outerwear, n.e.c. --	-	7	7	1.8	10.9	1.6	2.7	9.2	16.4	25.2	41.3	(D)	1.6	12.5
238	Miscellaneous apparel and accessories -----	-	9	6	0.7	4.4	0.6	1.2	3.4	9.8	4.8	14.3	(D)	1.3	8.5
2381	Fabric dress and work gloves -----	-	3	3	0.2	0.8	0.2	0.3	0.7	1.4	1.4	2.8	(D)	(NA)	(NA)
2385	Waterproof outer garments --	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
239	Miscellaneous fabricated textile products -----	-	59	18	2.3	18.2	1.9	3.4	12.0	36.1	62.0	98.5	(D)	1.8	19.9
2392	House furnishings, n.e.c. ---	-	9	6	1.5	12.9	1.2	2.3	8.4	25.6	50.0	75.8	(D)	EE	(D)
2393	Textile bags -----	-	7	3	0.3	2.3	0.2	0.5	1.6	3.4	5.3	8.9	(D)	0.2	3.1
2399	Fabricated textile products, n.e.c. -----	E1	8	2	0.2	0.6	0.2	0.2	0.4	2.2	0.8	2.9	(Z)	AA	(D)
24	Lumber and wood products -----	E1	1 424	226	21.9	188.2	18.7	34.9	137.9	415.3	668.9	1 081.5	45.8	21.7	275.0
2411	Logging camps and logging contractors -----	E5	613	15	1.6	14.9	1.5	2.2	12.6	37.5	40.5	77.6	5.7	1.8	17.8
242	Sawmills and planing mills ---	E1	554	100	7.8	59.4	7.0	13.1	47.0	133.6	170.6	303.8	18.0	FF	(D)
2421	Sawmills and planing mills, general -----	E2	516	81	5.8	44.9	5.2	9.6	35.1	111.4	135.7	246.7	16.4	5.2	65.4
2426	Hardwood dimension and flooring -----	-	30	16	1.8	13.3	1.6	3.2	11.0	20.2	33.1	53.3	(D)	1.8	14.2
2429	Special product sawmills, n.e.c. -----	-	8	3	0.2	1.2	0.2	0.3	0.9	2.0	1.8	3.8	(D)	0.2	1.8
243	Millwork, plywood, and structural members -----	-	126	47	5.1	46.7	4.2	8.2	33.0	107.5	228.4	336.2	8.9	5.9	87.9
2431	Millwork -----	-	41	16	2.2	18.8	1.7	3.3	12.3	41.6	88.9	109.9	5.1	3.0	35.7
2434	Wood kitchen cabinets -----	-	45	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2435	Hardwood veneer and plywood -----	-	23	15	1.4	13.8	1.2	2.4	10.3	29.1	118.7	148.0	1.9	2.0	33.3
2436	Softwood veneer and plywood -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2439	Structural wood members, n.e.c. -----	E1	14	8	0.4	3.9	0.3	0.6	2.4	9.1	10.8	19.9	0.5	0.3	3.3
244	Wood containers -----	-	51	23	1.4	9.7	1.2	2.2	7.4	18.8	26.8	45.3	1.6	1.5	10.6
2441	Nailed wood boxes and shook -----	-	8	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2448	Wood pallets and skids -----	E1	38	16	0.9	6.8	0.8	1.4	5.1	12.3	20.3	32.4	1.4	0.9	6.4
2449	Wood containers, n.e.c. -----	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
245	Wood buildings and mobile homes -----	-	26	20	3.1	27.4	2.4	4.1	15.6	54.9	118.5	173.0	2.5	2.6	38.8
2451	Mobile homes -----	-	8	6	0.7	5.9	0.6	1.1	4.2	9.6	25.5	35.0	0.3	1.0	10.4
2452	Prefabricated wood buildings -----	-	18	14	2.4	21.5	1.8	2.9	11.4	45.2	93.0	138.0	2.3	1.7	28.4
249	Miscellaneous wood products --	-	54	21	3.0	30.1	2.5	5.1	22.3	63.0	84.0	145.6	8.9	2.7	38.3
2491	Wood preserving -----	-	13	8	0.5	5.1	0.4	0.7	3.2	14.1	26.1	39.8	1.4	BB	(D)
2492	Particleboard -----	-	4	4	0.8	8.4	0.7	1.6	6.4	17.8	25.2	43.2	2.9	CC	(D)
2499	Wood products, n.e.c. -----	-	37	9	1.7	16.7	1.4	2.8	12.7	31.0	32.7	62.6	4.6	1.7	19.6

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			E1	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
25	Furniture and fixtures -	-	175	85	25.5	200.3	22.4	44.6	156.5	406.1	390.2	796.6	(D)	27.2	341.7
251	Household furniture -----	-	117	66	23.0	174.5	20.5	40.8	139.9	350.9	346.0	697.0	(D)	24.1	298.0
2511	Wood household furniture ---	-	67	37	18.1	136.1	16.5	33.3	111.8	267.0	255.1	525.3	(D)	18.6	236.2
2512	Upholstered household furniture ---	-	24	16	2.4	18.7	1.9	3.4	13.4	35.0	39.5	72.0	(D)	2.8	33.3
2514	Metal household furniture ---	-	6	3	1.3	11.0	1.1	2.1	7.8	26.1	23.5	49.0	(D)	1.7	18.0
2515	Mattresses and bedsprings ---	E1	16	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	5.0
2519	Household furniture, n.e.c. ---	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	5.1
252	Office furniture -----	-	7	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2522	Metal office furniture -----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2531	Public building and related furniture -----	-	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
254	Partitions and fixtures -----	-	29	7	1.0	9.8	0.8	1.5	5.5	13.4	20.0	33.9	(D)	1.0	14.0
2541	Wood partitions and fixtures ---	-	29	7	1.0	9.8	0.8	1.5	5.5	13.4	20.0	33.9	(D)	BB	(D)
259	Miscellaneous furniture and fixtures -----	E1	15	5	0.4	4.4	0.3	0.5	3.2	7.4	7.1	14.5	(D)	CC	(D)
2591	Drapery hardware and blinds and shades -----	E2	10	3	0.2	1.8	0.2	0.3	1.2	3.8	3.8	7.6	(D)	AA	(D)
2599	Furniture and fixtures, n.e.c. -	-	5	2	0.2	2.6	0.2	0.3	2.0	3.7	3.3	7.0	(D)	BB	(D)
26	Paper and allied products -----	-	97	62	13.1	187.7	9.9	19.7	129.9	546.2	619.3	1 162.7	129.4	13.5	301.7
2621	Paper mills, except building paper -----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2631	Paperboard mills -----	-	9	9	4.7	81.0	3.5	7.3	57.6	253.2	231.2	483.3	47.1	4.8	134.9
264	Miscellaneous converted paper products -----	-	41	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2642	Envelopes -----	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2643	Bags, except textile bags ---	-	12	9	1.3	12.5	1.1	2.1	9.6	27.2	64.4	91.2	1.5	1.4	19.9
2648	Converted paper products, n.e.c. -----	-	12	2	0.2	2.2	0.1	0.3	1.5	8.0	11.0	18.7	0.3	(NA)	(NA)
265	Paperboard containers and boxes -----	-	44	30	3.5	41.7	2.8	5.4	28.1	86.0	165.1	250.3	(D)	3.7	54.6
2651	Folding paperboard boxes ---	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	13.4
2652	Setup paperboard boxes ---	E1	6	3	0.2	1.5	0.2	0.4	1.1	3.0	2.7	5.7	(D)	AA	(D)
2653	Corrugated and solid fiber boxes -----	-	25	20	2.2	26.8	1.7	3.2	16.9	53.9	93.2	146.9	(D)	2.2	33.1
2655	Fiber cans, drums, and similar products -----	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	3.0
2661	Building paper and board mills -	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
27	Printing and publishing -----	E1	800	163	17.5	198.1	10.6	19.4	105.2	523.7	275.9	796.4	33.0	15.7	226.3
2711	Newspapers -----	-	127	47	6.5	70.4	2.8	4.9	27.4	143.6	57.8	201.4	7.7	6.4	93.7
2721	Periodicals -----	E3	59	2	0.2	3.2	(Z)	0.1	0.3	8.5	5.2	13.7	0.1	0.2	3.7
273	Books -----	E1	44	15	2.0	24.0	1.3	2.6	12.0	163.3	60.8	222.4	2.8	1.3	17.2
2731	Book publishing -----	E1	22	4	0.8	12.6	0.4	0.7	3.7	134.9	44.2	177.5	0.5	0.4	4.7
2732	Book printing -----	-	22	11	1.2	11.5	0.9	1.9	8.4	28.4	16.5	44.8	2.2	1.0	12.5
2741	Miscellaneous publishing -----	E1	31	7	0.9	9.3	0.2	0.4	1.6	17.5	6.4	24.1	0.1	0.9	10.9
275	Commercial printing -----	E1	448	58	5.6	65.1	4.3	7.9	44.6	126.7	96.4	222.3	17.5	4.9	68.7
2751	Commercial printing, letterpress -----	E5	238	10	1.1	11.4	0.9	1.7	7.9	22.2	14.7	36.8	1.1	2.0	23.9
2752	Commercial printing, lithographic -----	-	191	43	3.5	41.9	2.7	4.8	27.6	73.7	55.0	128.6	7.7	EE	(D)
2754	Commercial printing, gravure -----	-	11	5	1.0	11.0	0.7	1.3	8.6	29.1	26.2	54.6	8.7	CC	(D)
2761	Manifold business forms -----	-	14	11	1.0	10.6	0.7	1.4	7.6	33.5	39.2	71.9	2.6	0.8	14.7
278	Blankbooks and bookbinding --	-	18	9	0.7	6.9	0.6	1.1	5.1	15.3	7.3	22.4	1.1	0.6	8.1
2782	Blankbooks and looseleaf binders -----	-	8	7	0.5	5.7	0.5	0.9	4.3	13.3	6.1	19.3	0.9	0.4	6.0
279	Printing trade services -----	E1	59	13	0.7	8.7	0.6	1.0	6.4	15.3	2.9	18.2	1.0	0.6	11.3
2791	Typesetting -----	E2	42	9	0.5	6.1	0.4	0.7	4.4	10.6	1.5	12.1	0.9	0.4	5.7
28	Chemicals and allied products -----	-	155	60	33.4	510.4	22.7	44.1	305.1	1 470.9	1 322.4	2 765.8	145.3	33.0	844.4
281	Industrial inorganic chemicals --	-	20	7	3.1	49.9	1.8	4.0	28.0	169.9	46.4	213.6	5.3	2.6	87.1
2819	Industrial inorganic chemicals, n.e.c. -----	-	11	5	2.9	47.4	1.7	3.7	26.5	157.7	41.5	196.5	(D)	EE	(D)
282	Plastics materials and synthetics -----	-	12	10	19.1	292.4	14.1	27.1	191.8	707.4	757.5	1 457.9	82.5	18.3	419.0
2821	Plastics materials and resins -	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2823	Cellulosic manmade fibers ---	-	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2824	Organic fibers, noncellulosic -	-	7	7	14.8	239.3	10.5	19.7	149.2	575.9	532.2	1 104.9	73.4	FF	(D)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	E1	1977											1972	
			All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
28	Chemicals and allied products—Con.														
283	Drugs-----	-	19	9	3.4	57.3	1.4	2.6	15.4	209.3	152.2	348.2	(D)	FF	(D)
2831	Biological products-----	E1	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2833	Medicinals and botanicals-----	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2834	Pharmaceutical preparations-----	-	12	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
284	Soaps, cleaners, and toilet goods-----	-	21	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2844	Toilet preparations-----	-	5	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2851	Paints and allied products-----	E1	14	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	14.0
286	Industrial organic chemicals----	-	8	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2869	Industrial organic chemicals, n.e.c.-----	-	5	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
287	Agricultural chemicals-----	-	30	13	1.0	10.0	0.6	1.2	5.6	28.4	75.7	106.6	4.2	1.6	26.1
2874	Phosphatic fertilizers-----	-	4	4	0.4	4.1	0.3	0.5	2.4	11.5	29.2	42.1	(D)	CC	(D)
2875	Fertilizers, mixing only-----	-	16	9	0.5	5.1	0.3	0.6	2.8	13.5	43.7	58.5	1.4	CC	(D)
289	Miscellaneous chemical products-----	-	31	6	2.9	37.9	1.9	3.5	21.4	106.0	38.6	143.9	2.2	FF	(D)
2892	Explosives-----	-	3	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2899	Chemical preparations, n.e.c.-----	-	14	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
29	Petroleum and coal products-----	-	22	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2911	Petroleum refining-----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
295	Paving and roofing materials----	-	18	2	0.2	1.8	0.1	0.2	1.3	5.6	15.5	21.0	0.5	(NA)	(NA)
30	Rubber and miscellaneous plastics products-----	-	86	48	11.9	145.6	9.3	19.1	103.7	418.5	411.3	827.5	45.4	11.2	255.6
3011	Tires and inner tubes-----	-	6	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3069	Fabricated rubber products, n.e.c.-----	-	15	9	2.8	28.3	2.1	4.0	16.8	67.4	50.8	118.2	4.1	FF	(D)
3079	Miscellaneous plastics products-----	-	63	35	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	150.3
31	Leather and leather products-----	-	27	18	3.6	21.5	3.3	5.7	17.0	45.0	49.6	94.6	2.3	4.1	27.8
3111	Leather tanning and finishing----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
314	Footwear, except rubber-----	-	10	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3143	Men's footwear, except athletic-----	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3144	Women's footwear, except athletic-----	-	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3161	Luggage-----	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
32	Stone, clay, and glass products-----	-	335	109	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.6	190.7
322	Glass and glassware, pressed or blown-----	-	9	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3229	Pressed and blown glass, n.e.c.-----	-	9	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3231	Products of purchased glass----	-	12	7	0.8	7.4	0.6	1.2	4.9	15.7	22.5	39.5	0.3	0.9	16.3
3241	Cement, hydraulic-----	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
325	Structural clay products-----	-	10	8	0.7	5.9	0.6	1.2	4.6	18.8	9.9	29.3	0.9	1.0	13.4
3251	Brick and structural clay tile----	-	8	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
327	Concrete, gypsum, and plaster products-----	-	253	71	5.6	62.7	4.2	8.6	41.5	147.2	163.7	307.9	14.1	6.0	109.4
3271	Concrete block and brick-----	-	33	12	0.6	7.1	0.4	0.9	3.8	15.4	20.0	35.3	1.1	1.0	18.0
3272	Concrete products, n.e.c.-----	-	86	30	2.2	23.5	1.8	3.6	15.8	45.9	34.6	78.1	4.3	2.1	28.9
3273	Ready-mixed concrete-----	-	127	24	2.1	23.7	1.5	3.0	15.5	56.8	78.5	134.7	7.5	2.3	43.8
3274	Lime-----	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3275	Gypsum products-----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3281	Cut stone and stone products----	-	11	3	0.2	1.4	0.2	0.3	1.0	3.3	1.6	4.9	(D)	0.2	2.1
329	Miscellaneous nonmetallic mineral products-----	-	24	13	2.0	21.0	1.6	3.0	15.6	55.2	37.7	92.3	3.3	1.5	22.4
3292	Asbestos products-----	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3293	Gaskets, packing, and sealing devices-----	-	5	3	0.6	5.4	0.5	0.8	3.7	13.0	9.8	22.2	1.3	AA	(D)
3295	Minerals, ground or treated----	-	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	5.0
3299	Nonmetallic mineral products, n.e.c.-----	-	9	3	0.3	2.4	0.2	0.4	1.8	7.8	7.7	15.8	0.2	AA	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	E1	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
33	Primary metal industries -----	-	64	34	10.5	143.5	8.9	17.7	114.8	311.9	495.7	802.5	72.3	7.9	137.3
331	Blast furnace and basic steel products -----	-	14	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	19.9
3312	Blast furnaces and steel mills -----	-	10	3	0.9	13.6	0.8	1.5	12.1	34.1	47.4	80.6	(D)	CC	(D)
3315	Steel wire and related products -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
332	Iron and steel foundries -----	-	26	15	6.9	89.9	6.0	11.9	73.3	191.0	144.0	334.1	(D)	5.0	82.6
3321	Gray iron foundries -----	-	23	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3324	Steel investment foundries -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3341	Secondary nonferrous metals -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	4.5
335	Nonferrous rolling and drawing -----	-	12	9	2.0	30.9	1.6	3.2	24.0	60.5	239.9	298.1	5.5	1.8	26.4
3353	Aluminum sheet, plate, and foil -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3354	Aluminum extruded products -----	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3357	Nonferrous wire drawing and insulating -----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
34	Fabricated metal products -----	-	297	118	15.5	190.0	11.7	23.6	129.3	419.3	665.6	1 079.4	18.9	12.7	235.6
341	Metal cans and shipping containers -----	-	5	4	1.5	24.7	1.4	3.1	22.1	65.0	160.0	221.5	1.6	CC	(D)
3411	Metal cans -----	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
342	Cutlery, hand tools, and hardware -----	-	11	5	1.2	13.1	1.0	2.0	10.4	38.8	16.7	55.5	(D)	CC	(D)
3421	Cutlery -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3423	Hand and edge tools, n.e.c. -----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3429	Hardware, n.e.c. -----	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
343	Plumbing and heating, except electric -----	E1	15	4	0.5	5.7	0.4	0.7	3.5	21.6	14.1	35.7	0.7	0.5	10.8
3433	Heating equipment, except electric -----	-	14	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
344	Fabricated structural metal products -----	-	158	74	8.6	105.0	6.0	12.2	62.6	188.7	237.7	424.4	6.8	7.5	137.7
3441	Fabricated structural metal -----	-	47	24	2.5	30.5	1.8	3.7	18.2	58.0	79.1	131.6	2.1	3.1	53.7
3442	Metal doors, sash, and trim -----	-	19	11	1.5	14.0	1.1	2.1	8.1	31.7	36.3	66.7	1.6	1.4	19.1
3443	Fabricated plate work (boiler shops) -----	-	19	14	2.7	37.7	1.7	3.6	21.7	55.8	72.5	132.8	1.9	1.5	43.9
3444	Sheet metal work -----	-	40	13	0.7	9.2	0.6	1.2	6.7	16.5	12.5	28.7	0.6	CC	(D)
3446	Architectural metal work -----	E2	21	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3448	Prefabricated metal buildings -----	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3449	Miscellaneous metal work -----	-	8	7	0.4	5.7	0.3	0.7	3.5	10.5	24.7	35.2	0.3	CC	(D)
345	Screw machine products, bolts, etc. -----	-	7	5	0.7	5.7	0.6	1.1	4.3	17.7	27.3	43.9	(D)	BB	(D)
3452	Bolts, nuts, rivets, and washers -----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
346	Metal forgings and stampings -----	E1	17	4	0.5	3.9	0.4	0.8	3.0	17.8	17.0	33.8	(D)	0.3	3.5
3465	Automotive stampings -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3469	Metal stampings, n.e.c. -----	E4	15	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
347	Metal services, n.e.c. -----	E4	29	6	0.4	3.4	0.3	0.6	2.5	6.1	3.2	9.2	0.1	0.2	2.7
3471	Plating and polishing -----	E3	19	5	0.3	2.5	0.2	0.4	1.8	4.6	2.0	6.6	0.1	AA	(D)
349	Miscellaneous fabricated metal products -----	-	50	15	2.1	28.2	1.7	3.2	20.5	63.3	189.2	254.5	3.2	1.7	30.2
3494	Valves and pipe fittings -----	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3497	Metal foil and leaf -----	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3499	Fabricated metal products, n.e.c. -----	-	29	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	5.6
35	Machinery, except electrical -----	-	414	123	17.4	219.9	12.3	24.2	133.9	436.2	463.5	913.3	62.7	10.6	191.6
352	Farm and garden machinery -----	-	10	4	1.0	9.6	0.8	1.5	6.2	24.0	21.4	46.9	1.7	CC	(D)
3523	Farm machinery and equipment -----	-	9	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3524	Lawn and garden equipment -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
353	Construction and related machinery -----	-	64	32	5.3	66.6	3.8	7.4	41.8	155.2	199.0	355.5	(D)	1.8	40.8
3531	Construction machinery -----	-	8	4	0.8	12.7	0.6	1.2	7.6	40.9	36.3	73.3	1.2	BB	(D)
3532	Mining machinery -----	-	34	16	2.1	25.5	1.5	2.8	15.3	50.2	99.3	152.4	3.8	BB	(D)
3535	Conveyors and conveying equipment -----	-	11	6	0.8	10.4	0.6	1.2	6.5	15.8	23.9	39.9	0.4	BB	(D)
3536	Holsts, cranes, and monorails -----	-	4	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3537	Industrial trucks and tractors -----	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
354	Metallworking machinery -----	-	32	12	0.8	11.4	0.7	1.2	7.9	11.9	52.9	68.2	1.1	0.9	17.4
3542	Machine tools, metal forming types -----	E1	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures -----	E3	18	5	0.3	3.8	0.2	0.4	2.6	6.4	1.6	8.0	0.5	0.3	4.6

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
35	Machinery, except electrical—Con.														
355	Special industry machinery ----	-	36	20	1.9	27.0	1.2	2.4	14.5	36.3	28.9	73.7	2.8	1.6	39.1
3551	Food products machinery ----	-	6	5	0.6	8.8	0.3	0.5	3.3	16.7	8.7	24.2	(D)	BB	(D)
3555	Printing trades machinery ----	-	7	4	0.4	5.3	0.2	0.5	3.4	9.3	5.2	15.0	1.0	AA	(D)
3559	Special industry machinery, n.e.c. -----	-	14	6	0.8	10.8	0.5	1.0	6.3	14.7	12.7	28.0	0.6	0.6	10.5
356	General industrial machinery ---	-	35	13	1.5	20.6	1.1	2.1	12.2	57.4	46.4	101.8	(D)	0.9	22.3
3562	Ball and roller bearings -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3564	Blowers and fans -----	-	6	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3568	Power transmission equipment, n.e.c. -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3569	General industrial machinery, n.e.c. -----	-	16	7	0.5	5.9	0.3	0.5	2.8	10.9	6.1	16.1	2.4	(NA)	(NA)
357	Office and computing machines -----	-	10	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	2.6
3573	Electronic computing equipment -----	-	7	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
358	Refrigeration and service machinery -----	-	21	12	2.4	28.4	1.5	3.0	15.0	40.9	63.8	105.2	6.1	2.3	28.1
3585	Refrigeration and heating equipment -----	-	13	8	2.0	25.3	1.3	2.5	13.2	35.0	57.6	92.9	(D)	EE	(D)
3589	Service industry machinery, n.e.c. -----	E2	8	4	0.3	3.2	0.2	0.5	1.9	6.0	6.2	12.3	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E2	205	27	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	24.6
3599	Machinery, except electrical, n.e.c. -----	E2	205	27	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	24.6
36	Electric and electronic equipment -		175	68	28.1	373.0	17.9	35.5	178.5	879.7	655.2	1 506.3	47.3	29.0	557.5
361	Electric distributing equipment -	-	15	8	2.1	25.6	1.5	3.1	14.3	68.3	65.2	127.2	2.4	1.6	26.2
3612	Transformers -----	-	7	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3613	Switchgear and switchboard apparatus -----	-	8	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
362	Electrical industrial apparatus --	-	28	14	5.9	77.2	3.9	7.3	40.1	189.1	107.8	294.1	7.2	6.0	108.4
3621	Motors and generators -----	-	12	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3622	Industrial controls -----	-	12	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3629	Electrical industrial apparatus, n.e.c. -----	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
363	Household appliances -----	-	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3634	Electric housewares and fans -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3635	Household vacuum cleaners -	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
364	Electric lighting and wiring equipment -----	-	9	3	0.8	8.2	0.6	1.1	5.1	25.0	22.7	46.8	0.7	BB	(D)
3641	Electric lamps -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3648	Lighting equipment, n.e.c. ---	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
365	Radio and TV receiving equipment -----	-	7	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3651	Radio and TV receiving sets -	-	3	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3652	Phonograph records and prerecorded tape -----	-	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
366	Communication equipment ----	-	47	23	12.1	188.0	5.9	12.0	64.2	432.9	227.3	629.7	28.4	8.9	176.6
3661	Telephone and telegraph apparatus -----	-	8	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3662	Radio and TV communication equipment --	-	39	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
367	Electronic components and accessories -----	-	45	11	2.5	21.2	2.1	4.3	16.2	42.4	24.4	65.8	2.1	4.8	113.8
3675	Electronic capacitors -----	-	4	4	1.5	12.3	1.4	2.9	10.6	23.8	10.7	34.3	0.8	1.5	15.9
3679	Electronic components, n.e.c. -----	E1	34	5	0.8	7.6	0.8	1.2	4.8	12.4	11.1	23.5	1.1	1.1	12.1
369	Miscellaneous electrical equipment and supplies -----	-	19	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3699	Electrical equipment and supplies, n.e.c. -----	-	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
37	Transportation equipment -----		131	49	36.7	509.8	31.8	64.1	427.8	953.5	1 274.0	2 219.0	61.1	FF	(D)
371	Motor vehicles and equipment -	-	48	21	7.6	109.9	6.0	12.5	78.3	407.6	893.7	1 292.5	(D)	4.0	131.8
3711	Motor vehicles and car bodies -----	-	3	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3713	Truck and bus bodies -----	-	15	8	0.8	8.7	0.6	1.1	5.3	15.2	24.2	39.2	0.4	(NA)	(NA)
3714	Motor vehicle parts and accessories -----	-	25	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3715	Truck trailers -----	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
373	Ship and boat building and repairing -----	-	65	22	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3731	Ship building and repairing --	-	18	12	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3732	Boat building and repairing --	E1	47	10	0.9	9.4	0.7	1.4	6.7	14.5	16.1	29.7	1.7	0.4	5.4
3743	Railroad equipment -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
37	Transportation equipment—Con.														
376	Guided missiles, space vehicles, parts	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3764	Space propulsion units and parts	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
379	Miscellaneous transportation equipment	-	14	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3792	Travel trailers and campers	-	10	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
38	Instruments and related products	-	80	27	4.1	47.7	2.6	5.2	24.8	91.7	55.6	144.4	6.2	EE	(D)
3811	Engineering and scientific instruments	-	6	4	0.3	3.7	0.2	0.3	2.1	9.0	3.5	11.1	0.3	(NA)	(NA)
382	Measuring and controlling devices	-	20	7	1.1	17.5	0.7	1.4	9.9	26.8	9.8	36.8	0.9	AA	(D)
3823	Process control instruments	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3825	Instruments to measure electricity	-	10	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3832	Optical instruments and lenses	-	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
384	Medical instruments and supplies	E1	25	5	0.6	7.0	0.3	0.6	2.6	12.8	12.2	24.9	0.6	0.3	5.3
3841	Surgical and medical instruments	E1	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3842	Surgical appliances and supplies	E2	16	2	0.2	2.0	0.2	0.3	1.4	3.0	6.2	9.3	0.1	(NA)	(NA)
3851	Ophthalmic goods	-	8	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.0
3861	Photographic equipment and supplies	E1	11	3	0.3	4.6	0.1	0.2	1.5	9.6	5.9	15.4	0.3	BB	(D)
3873	Watches, clocks, and watchcases	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
39	Miscellaneous manufacturing industries	-	130	29	3.5	31.9	2.7	5.2	22.1	70.3	77.9	146.7	2.5	3.9	39.3
394	Toys and sporting goods	-	19	5	0.7	6.7	0.6	1.1	4.1	16.3	15.1	31.6	(D)	EE	(D)
3949	Sporting and athletic goods, n.e.c.	-	14	4	0.7	6.5	0.5	1.0	4.0	15.9	14.9	30.8	0.6	EE	(D)
395	Pens, pencils, office and art supplies	-	11	3	0.2	1.4	0.1	0.2	0.8	2.5	3.7	6.1	(D)	0.3	3.1
396	Costume jewelry and notions	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3964	Needles, pins, and fasteners	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
399	Miscellaneous manufactures	E1	83	15	1.6	15.2	1.2	2.2	10.7	33.0	41.9	74.5	(D)	1.4	21.7
3993	Signs and advertising displays	E1	46	7	0.7	6.7	0.5	0.9	4.4	11.4	7.8	19.0	(D)	0.7	9.4
3999	Manufacturing industries, n.e.c.	E1	30	5	0.7	7.5	0.6	1.1	5.6	20.1	30.5	50.4	0.8	0.5	9.7
-	Administrative and auxiliary	-	158	81	11.7	197.5	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	E ¹	1977										1972		
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Johnson City-Kingsport-Bristol, Tenn.-Va., SMSA -----	-	429	182	54.5	655.6	40.0	77.4	407.6	1 505.0	1 880.0	3 362.5	102.0	49.3	832.0
20	Food and kindred products --	-	46	19	2.8	32.2	1.7	3.7	15.8	78.4	166.7	245.1	5.1	(NA)	(NA)
205	Bakery products -----	-	7	5	1.0	12.6	0.6	1.3	5.1	30.0	23.7	53.7	(D)	(NA)	(NA)
2051	Bread, cake, and related products -----	-	7	6	1.0	12.6	0.6	1.3	5.1	30.0	23.7	53.7	(D)	(NA)	(NA)
208	Beverages -----	-	5	3	0.3	3.3	0.1	0.2	0.7	9.0	10.6	19.6	(D)	(NA)	(NA)
2086	Bottled and canned soft drinks -----	-	5	3	0.3	3.3	0.1	0.2	0.7	9.0	10.6	19.6	(D)	(NA)	(NA)
22	Textile mill products -----	-	12	11	3.7	34.1	3.4	6.9	29.6	83.8	105.8	165.3	(D)	(NA)	(NA)
23	Apparel and other textile products -----	-	32	26	4.6	27.6	4.2	7.0	22.6	61.1	41.3	100.4	1.8	(NA)	(NA)
232	Men's and boys' furnishings -----	-	11	9	2.2	13.6	2.0	3.4	11.1	30.7	24.0	53.3	(D)	(NA)	(NA)
233	Women's and misses' outerwear -----	-	10	9	1.0	5.7	0.9	1.5	4.6	16.4	8.6	24.8	(D)	(NA)	(NA)
234	Women's and children's undergarments -----	-	5	5	1.1	7.0	1.0	1.7	5.7	11.9	7.2	18.6	(D)	(NA)	(NA)
2341	Women's and children's underwear -----	-	5	5	1.1	7.0	1.0	1.7	5.7	11.9	7.2	18.6	(D)	(NA)	(NA)
24	Lumber and wood products --	E1	65	9	1.1	8.0	0.9	1.7	6.1	14.8	20.6	35.4	0.8	(NA)	(NA)
242	Sawmills and planing mills --	-	31	4	0.7	5.0	0.6	1.2	4.0	8.4	8.8	17.2	0.5	(NA)	(NA)
2426	Hardwood dimension and flooring -----	-	5	4	0.6	4.5	0.6	1.1	3.6	7.2	7.3	14.4	(D)	(NA)	(NA)
25	Furniture and fixtures -----	-	11	6	1.5	10.6	1.3	2.4	8.2	19.2	16.0	35.1	1.5	(NA)	(NA)
2511	Wood household furniture -----	-	3	3	0.8	5.1	0.7	1.4	4.1	10.8	8.7	19.4	(D)	(NA)	(NA)
27	Printing and publishing -----	-	60	13	4.5	48.5	3.4	6.3	33.6	97.4	62.2	161.2	2.7	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	12	6	0.8	7.9	0.7	1.3	5.3	20.1	47.0	68.2	0.8	(NA)	(NA)
3079	Miscellaneous plastics products -----	-	9	3	0.4	3.2	0.3	0.6	2.1	7.7	7.4	15.1	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	33	14	2.4	25.9	2.0	4.0	20.7	57.0	46.0	105.1	6.4	(NA)	(NA)
327	Concrete, gypsum, and plaster products -----	-	23	8	0.4	4.3	0.3	0.5	2.8	11.2	11.9	23.4	(D)	(NA)	(NA)
33	Primary metal industries --	-	13	7	1.2	14.0	1.0	2.0	9.8	31.8	47.5	79.8	2.3	(NA)	(NA)
332	Iron and steel foundries --	E1	5	3	0.3	3.2	0.3	0.5	2.4	4.9	3.1	8.0	0.3	(NA)	(NA)
34	Fabricated metal products --	-	36	19	4.7	60.0	3.5	6.6	40.1	134.3	170.5	298.8	7.0	(NA)	(NA)
342	Cutlery, hand tools, and hardware -----	-	6	6	0.6	5.6	0.5	1.0	4.2	13.9	8.5	22.4	(D)	(NA)	(NA)
344	Fabricated structural metal products -----	-	15	5	1.4	19.3	0.9	1.6	10.9	28.4	31.2	62.5	0.9	(NA)	(NA)
35	Machinery, except electrical --	-	34	12	3.4	48.1	2.7	5.5	28.4	335.5	158.1	482.9	9.1	(NA)	(NA)
356	General industrial machinery -----	-	3	3	0.9	10.0	0.7	1.4	7.8	32.4	31.9	65.2	1.3	(NA)	(NA)
36	Electric and electronic equipment -----	-	14	9	4.9	53.2	2.8	5.4	23.2	118.7	87.1	205.1	7.2	(NA)	(NA)
363	Household appliances -----	-	4	4	1.6	14.9	1.3	2.6	10.2	43.0	54.6	98.0	(D)	(NA)	(NA)
37	Transportation equipment --	-	10	4	0.5	6.6	0.4	0.9	4.5	15.5	19.6	34.9	(D)	(NA)	(NA)
--	Administrative and auxiliary --	-	5	4	0.5	6.1	-	-	-	-	-	-	-	(NA)	(NA)
	Lynchburg SMSA -----	-	264	103	27.3	317.7	18.8	37.0	186.4	708.6	533.3	1 242.4	40.8	24.4	391.6
20	Food and kindred products --	-	20	11	1.0	12.3	0.6	1.1	5.0	58.9	54.9	113.6	1.8	1.0	19.3
23	Apparel and other textile products -----	-	23	22	2.8	18.2	2.3	4.3	13.4	31.4	30.5	61.5	1.4	2.7	27.1
233	Women's and misses' outerwear -----	-	9	9	0.9	5.8	0.9	1.4	4.9	9.3	4.4	13.7	0.1	(NA)	(NA)
24	Lumber and wood products --	E1	88	9	0.7	4.9	0.6	1.1	4.0	12.3	16.9	29.1	0.9	0.6	6.9
242	Sawmills and planing mills --	-	30	7	0.5	3.6	0.5	0.9	2.9	9.5	13.5	22.9	0.7	0.5	5.2
2426	Hardwood dimension and flooring -----	-	6	4	0.4	2.4	0.3	0.6	2.0	7.1	9.0	16.1	0.2	(NA)	(NA)
26	Paper and allied products --	-	6	4	0.7	11.8	0.6	1.3	8.6	29.1	35.6	64.5	(D)	0.8	12.3
27	Printing and publishing -----	-	25	6	1.0	12.4	0.7	1.3	8.2	30.9	18.0	48.7	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	8	4	3.1	42.9	1.9	4.1	25.0	151.1	37.3	186.8	2.9	2.4	73.5
32	Stone, clay, and glass products -----	-	14	4	0.3	2.9	0.3	0.5	1.9	6.2	5.7	11.9	0.4	(NA)	(NA)
35	Machinery, except electrical --	-	21	8	1.3	18.0	0.9	2.0	11.8	28.1	40.5	68.8	(D)	0.6	10.0
36	Electric and electronic equipment -----	-	8	5	4.2	55.4	2.8	5.2	28.8	128.9	76.1	202.6	(D)	4.9	94.2
--	Administrative and auxiliary --	-	11	7	2.6	38.5	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 6. **Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.**

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Newport News-Hampton SMSA-----	-	218	73	34.3	447.3	28.5	55.9	362.8	667.1	963.4	1 631.2	54.4	35.6	461.4
20	Food and kindred products --	-	36	20	1.7	17.6	1.3	2.4	12.2	79.9	139.2	218.6	6.1	2.0	44.2
209	Miscellaneous foods and kindred products-----	E2	27	13	0.8	3.8	0.7	1.1	2.8	9.5	24.3	33.8	0.7	1.1	8.1
22	Textile mill products-----	-	3	3	0.4	2.4	0.3	0.6	1.9	6.2	8.2	14.2	(D)	0.3	3.7
23	Apparel and other textile products-----	E1	12	3	0.3	1.9	0.3	0.6	1.7	2.6	0.4	3.0	(Z)	0.5	1.7
24	Lumber and wood products--	E1	25	7	0.4	3.2	0.3	0.6	2.5	6.6	8.8	15.1	0.6	0.6	6.9
27	Printing and publishing ----	-	25	5	0.9	10.0	0.5	1.0	6.1	19.0	11.0	30.0	0.7	0.9	12.2
32	Stone, clay, and glass products-----	-	18	6	0.3	2.4	0.2	0.5	1.8	5.1	8.5	13.4	0.5	0.5	6.2
35	Machinery, except electrical -	-	21	6	0.7	9.9	0.5	0.9	6.2	18.7	17.8	35.8	0.8	0.5	7.3
39	Miscellaneous manufacturing industries ---	-	7	3	0.5	5.0	0.4	0.9	3.9	10.7	9.5	19.4	(D)	(NA)	(NA)
	Norfolk-Virginia Beach-Portsmouth, Va.-N.C., SMSA-----	-	537	190	26.7	326.2	19.4	38.9	211.3	1 083.3	1 850.2	2 950.9	50.1	27.6	551.7
20	Food and kindred products --	-	76	50	5.5	54.0	3.7	7.3	32.5	375.5	521.1	900.1	15.9	5.8	174.7
202	Dairy products -----	-	8	7	0.4	4.1	0.2	0.4	1.6	12.8	32.8	45.5	0.5	0.5	9.4
205	Bakery products -----	-	9	8	0.8	8.2	0.4	0.7	3.2	19.6	15.0	34.5	1.5	1.5	30.5
208	Beverages -----	-	9	7	0.6	5.8	0.2	0.5	2.4	19.3	21.8	40.8	1.0	0.5	9.2
209	Miscellaneous foods and kindred products-----	-	21	11	1.4	13.7	1.1	2.1	9.5	90.5	115.2	206.4	6.2	0.9	57.0
23	Apparel and other textile products-----	-	27	9	0.8	6.0	0.7	1.3	3.9	13.3	10.9	24.0	0.9	0.5	4.9
232	Men's and boys' furnishings -----	-	7	4	0.3	2.8	0.3	0.5	1.4	5.3	5.9	11.1	(D)	(NA)	(NA)
24	Lumber and wood products--	-	56	23	2.2	20.6	1.8	3.5	15.2	42.6	138.5	180.9	3.2	2.5	42.6
242	Sawmills and planing mills --	E1	15	8	0.4	2.9	0.4	0.7	2.4	5.4	11.9	17.3	0.6	0.4	4.7
243	Millwork, plywood, and structural members-----	-	19	9	1.0	9.8	0.8	1.5	7.0	21.2	109.2	131.1	(D)	1.1	25.7
249	Miscellaneous wood products -----	-	6	4	0.7	7.1	0.6	1.1	5.1	14.3	16.0	29.5	0.6	0.7	9.4
25	Furniture and fixtures-----	E4	14	4	0.3	2.2	0.2	0.4	1.2	5.3	5.4	10.6	(D)	0.3	3.5
27	Printing and publishing ----	E1	93	9	2.0	21.7	0.9	1.6	8.9	47.1	22.8	69.8	1.6	1.9	29.3
275	Commercial printing -----	E3	63	4	0.5	4.1	0.3	0.5	2.9	8.1	8.5	16.5	0.6	(NA)	(NA)
28	Chemicals and allied products-----	-	28	13	1.5	20.6	0.8	1.7	10.4	45.9	124.2	171.7	5.4	1.3	29.1
287	Agricultural chemicals -----	-	9	7	0.6	6.3	0.4	0.8	3.8	20.4	56.7	80.1	2.2	(NA)	(NA)
30	Rubber and miscellaneous plastics products-----	E1	13	4	0.5	5.4	0.4	0.8	3.6	15.3	17.7	33.6	(D)	0.4	4.9
3079	Miscellaneous plastics products -----	E1	9	3	0.5	5.0	0.4	0.8	3.4	14.6	16.0	31.2	(D)	(NA)	(NA)
32	Stone, clay, and glass products-----	-	38	10	1.3	13.2	0.9	1.7	8.4	34.8	39.0	73.9	3.2	1.3	22.6
327	Concrete, gypsum, and plaster products-----	-	29	6	0.8	9.3	0.6	1.2	5.9	25.9	32.1	57.4	2.8	0.9	17.3
3273	Ready-mixed concrete --	-	13	3	0.3	3.9	0.2	0.3	1.9	9.3	13.7	22.9	1.7	(NA)	(NA)
33	Primary metal industries ----	E1	9	5	0.5	5.4	0.4	0.8	4.0	8.6	8.9	17.2	0.6	0.6	9.0
34	Fabricated metal products---	-	44	13	1.1	12.2	0.8	1.5	7.8	20.1	24.0	43.4	1.0	1.4	15.4
3441	Fabricated structural metal -----	-	10	6	0.5	5.5	0.4	0.7	3.5	9.4	12.4	21.1	0.2	0.6	5.3
3442	Metal doors, sash, and trim -----	-	5	3	0.3	2.3	0.2	0.3	1.5	3.9	4.0	7.9	(D)	(NA)	(NA)
35	Machinery, except electrical -	-	44	13	1.2	14.9	1.0	1.8	10.0	28.1	76.2	108.5	1.7	0.9	11.0
359	Miscellaneous machinery, except electrical -----	-	27	6	0.5	6.3	0.4	0.8	4.7	7.4	6.3	17.0	0.4	0.4	6.3
3599	Machinery, except electrical, n.e.c.-----	-	27	6	0.5	6.3	0.4	0.8	4.7	7.4	6.3	17.0	0.4	0.4	6.3
3731	Ship building and repairing -----	-	12	9	2.7	39.7	2.4	5.6	31.5	56.8	25.2	82.0	(D)	(NA)	(NA)
-	Administrative and auxiliary --	-	16	8	0.7	9.1	-	-	-	-	-	-	-	(NA)	(NA)
	Petersburg-Colonial Heights-Hopewell SMSA----	-	108	45	11.5	155.2	9.0	16.2	114.1	560.6	577.5	1 227.2	96.0	12.1	369.7
23	Apparel and other textile products-----	E1	4	4	0.4	2.1	0.4	0.6	1.8	3.6	2.8	6.1	(D)	0.7	3.1
28	Chemicals and allied products-----	-	10	6	3.7	60.3	2.7	5.5	42.3	214.3	252.9	464.3	26.9	3.4	120.2

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Richmond SMSA -----	-	775	292	53.4	732.8	34.5	84.8	397.0	1 992.6	2 394.6	4 359.1	126.5	50.2	1 095.5
20	Food and kindred products --	-	46	25	4.1	47.5	2.9	5.6	30.2	170.0	243.4	413.6	11.7	3.7	71.0
202	Dairy products -----	-	5	5	0.4	5.0	0.1	0.3	1.5	14.3	30.1	44.3	(D)	0.5	8.8
205	Bakery products -----	-	9	5	1.6	21.6	1.3	2.4	17.4	97.9	67.5	166.2	(D)	1.4	27.7
208	Beverages -----	-	11	6	0.5	6.5	0.2	0.5	2.2	20.9	27.8	48.3	1.1	0.3	6.1
2086	Bottled and canned soft drinks -----	-	7	6	0.5	6.1	0.2	0.5	2.0	20.1	26.8	46.6	1.0	0.3	5.6
23	Apparel and other textile products -----	-	27	19	2.7	19.7	2.3	4.1	13.5	30.1	27.0	57.0	0.7	3.7	31.4
239	Miscellaneous fabricated textile products -----	-	10	8	1.3	10.3	1.0	1.8	6.0	16.1	17.2	33.4	0.5	1.0	11.2
24	Lumber and wood products --	E1	129	23	1.5	14.3	1.3	2.3	10.4	25.4	44.5	69.1	(D)	1.7	22.9
242	Sawmills and planing mills	E1	37	12	0.6	5.2	0.5	1.0	3.9	11.2	15.7	26.9	2.5	0.5	7.9
249	Miscellaneous wood products -----	-	8	4	0.3	4.0	0.3	0.5	3.0	3.9	14.6	17.8	(D)	0.4	3.0
25	Furniture and fixtures -----	-	36	13	1.7	16.9	1.4	2.6	11.5	32.0	34.6	67.8	(D)	2.0	18.8
251	Household furniture -----	-	8	4	0.5	5.0	0.5	0.8	3.8	11.8	10.9	23.7	(D)	1.6	13.7
254	Partitions and fixtures -----	-	14	4	0.8	7.8	0.6	1.1	4.2	9.8	15.2	25.5	(D)	(NA)	(NA)
2541	Wood partitions and fixtures -----	-	14	4	0.8	7.8	0.6	1.1	4.2	9.8	15.2	25.5	(D)	(NA)	(NA)
26	Paper and allied products --	-	40	32	4.1	49.2	3.2	6.2	33.9	96.8	205.9	301.3	8.0	4.2	64.4
2643	Bags, except textile bags -----	-	7	6	0.8	7.7	0.7	1.2	5.8	16.7	48.6	64.9	1.3	(NA)	(NA)
2653	Corrugated and solid fiber boxes -----	-	12	10	1.1	13.9	0.9	1.6	8.7	26.8	47.8	74.6	(D)	(NA)	(NA)
27	Printing and publishing -----	-	149	35	4.3	50.3	2.5	4.5	26.4	98.5	58.9	157.3	5.2	4.9	78.3
275	Commercial printing -----	E1	90	18	1.7	20.7	1.2	2.2	13.1	35.0	33.1	88.0	2.2	1.9	32.3
2752	Commercial printing, lithographic -----	-	43	13	1.2	15.2	0.8	1.5	8.9	24.0	21.5	45.6	1.6	(NA)	(NA)
278	Blankbooks and bookbinding -----	-	7	3	0.3	4.2	0.3	0.6	3.2	8.8	2.6	11.4	0.3	0.4	5.5
279	Printing trade services -----	E2	21	5	0.3	3.1	0.2	0.4	2.3	5.4	1.2	6.7	0.6	(NA)	(NA)
28	Chemicals and allied products -----	-	32	12	7.9	136.8	4.6	8.9	67.1	388.2	338.5	712.3	31.3	7.5	217.5
30	Rubber and miscellaneous plastics products -----	-	20	9	1.6	17.8	1.1	2.3	12.6	64.3	47.6	109.4	4.8	2.4	46.2
32	Stone, clay, and glass products -----	-	32	18	1.0	11.1	0.7	1.4	6.3	24.5	20.0	44.1	2.2	1.0	16.4
3272	Concrete products, n.e.c. -----	-	12	10	0.5	6.0	0.4	0.8	3.7	10.1	6.6	16.3	1.3	0.5	6.4
34	Fabricated metal products --	-	59	24	3.1	43.5	2.4	4.7	30.5	67.7	175.3	235.5	2.8	2.2	42.0
3441	Fabricated structural metal -----	E1	8	4	0.4	4.3	0.3	0.6	2.9	11.8	8.4	16.8	0.2	0.4	5.8
35	Machinery, except electrical	E2	72	22	2.1	30.7	1.3	2.7	17.4	36.0	28.8	72.4	2.3	1.6	32.8
354	Metalworking machinery --	-	4	4	0.3	4.4	0.2	0.4	3.4	2.9	1.6	4.0	(D)	(NA)	(NA)
355	Special industry machinery -----	-	12	7	1.2	17.2	0.6	1.3	8.0	15.9	17.4	41.9	(D)	1.0	24.7
359	Miscellaneous machinery, except electrical -----	E3	40	6	0.4	5.5	0.3	0.6	3.7	9.6	3.5	12.6	(D)	0.4	5.1
3599	Machinery, except electrical, n.e.c. -----	E3	40	6	0.4	5.5	0.3	0.6	3.7	9.6	3.5	12.6	(D)	0.4	5.1
39	Miscellaneous manufacturing industries --	-	24	6	0.6	6.8	0.5	1.0	4.9	16.1	24.3	39.9	0.6	0.7	11.5
399	Miscellaneous manufactures -----	-	17	4	0.5	6.1	0.4	0.8	4.5	15.0	22.9	37.5	(D)	0.4	8.5
--	Administrative and auxiliary --	-	39	23	4.5	86.3	-	-	-	-	-	-	-	(NA)	(NA)
	Roanoke SMSA -----	-	251	109	20.4	225.2	14.8	28.3	138.0	511.0	478.3	983.0	35.1	20.9	344.7
20	Food and kindred products --	-	25	15	1.8	19.8	1.1	2.4	11.5	46.2	108.9	155.1	2.3	1.9	31.6
208	Beverages -----	E1	5	4	0.4	3.6	0.1	0.2	0.7	12.9	10.7	23.5	0.9	0.4	5.6
2086	Bottled and canned soft drinks -----	E1	5	4	0.4	3.6	0.1	0.2	0.7	12.9	10.7	23.5	0.9	0.4	5.6
22	Textile mill products -----	-	4	4	2.1	17.6	1.8	3.6	13.5	33.1	40.9	74.2	(D)	2.1	22.9
2335	Women's and misses' dresses -----	-	6	5	1.5	8.3	1.2	1.8	5.8	11.9	5.0	18.3	0.1	(NA)	(NA)
27	Printing and publishing -----	-	28	6	0.9	9.5	0.4	0.8	4.3	17.9	8.9	26.8	0.9	0.8	11.6
28	Chemicals and allied products -----	-	13	3	1.0	14.5	0.7	1.3	9.0	73.5	28.5	98.9	0.9	1.1	30.8
32	Stone, clay, and glass products -----	-	24	10	0.8	8.8	0.7	1.4	6.0	16.7	20.0	35.6	1.8	0.8	20.2
327	Concrete, gypsum, and plaster products -----	E1	17	6	0.4	3.2	0.3	0.5	2.0	6.3	7.8	13.8	(D)	0.3	5.3
332	Iron and steel foundries -----	E1	6	2	0.3	2.7	0.2	0.4	2.0	3.8	2.5	6.1	(D)	0.3	2.4
3321	Gray iron foundries -----	E1	6	2	0.3	2.7	0.2	0.4	2.0	3.8	2.5	6.1	(D)	0.3	2.4
34	Fabricated metal products --	-	24	13	1.4	16.4	1.0	2.0	9.2	34.3	31.7	65.6	1.7	1.0	17.5
344	Fabricated structural metal products -----	-	13	7	0.8	9.6	0.5	1.1	4.8	18.6	23.7	42.4	0.6	0.8	14.0
35	Machinery, except electrical	-	26	10	1.5	19.2	1.1	2.1	12.2	43.9	32.8	77.8	(D)	1.3	27.4
353	Construction and related machinery -----	-	9	4	1.2	15.1	0.9	1.7	9.8	37.1	30.9	69.2	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials² (million dollars)	Value of shipments² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Washington, D.C.-Md.-Va., SMSA -----	-	2 054	510	60.5	930.9	29.8	56.1	354.5	1 820.7	1 435.2	3 233.5	(D)	54.9	1 068.2
20	Food and kindred products --	-	80	39	4.9	76.8	2.3	4.8	32.7	203.4	416.0	618.8	11.4	5.2	141.0
202	Dairy products -----	-	15	10	0.9	16.3	0.4	1.0	7.9	43.0	191.9	235.3	3.4	0.9	32.8
2026	Fluid milk -----	-	6	4	0.6	11.1	0.3	0.6	5.1	31.1	110.0	141.3	2.1	0.6	24.9
205	Bakery products -----	-	26	11	2.1	35.1	0.9	1.9	14.4	74.3	61.0	134.1	4.6	1.5	44.5
2051	Bread, cake, and related products -----	-	26	11	2.1	35.1	0.9	1.9	14.4	74.3	61.0	134.1	4.6	1.5	44.5
208	Beverages -----	-	13	8	1.1	16.1	0.4	0.9	4.5	49.6	72.1	121.5	2.2	1.4	32.6
209	Miscellaneous foods and kindred products -----	-	16	6	0.5	4.8	0.4	0.7	3.3	21.8	50.9	72.4	0.9	0.6	15.8
24	Lumber and wood products --	E4	75	10	0.8	8.1	0.6	1.2	5.5	15.1	17.2	32.1	1.1	0.8	11.5
243	Millwork, plywood, and structural members -----	E3	28	8	0.5	5.9	0.4	0.8	3.8	9.7	12.5	21.9	0.7	0.6	6.6
25	Furniture and fixtures -----	E3	63	11	0.8	8.2	0.7	1.2	5.5	15.8	17.0	32.8	0.5	0.6	8.1
251	Household furniture -----	E1	20	3	0.3	2.6	0.2	0.5	1.6	5.6	8.5	14.1	0.2	(NA)	(NA)
259	Miscellaneous furniture and fixtures -----	E4	13	4	0.3	3.1	0.2	0.4	2.2	5.9	5.1	11.0	0.2	0.3	3.6
26	Paper and allied products --	-	15	6	0.7	9.7	0.6	1.0	6.9	20.1	15.0	35.1	0.7	0.6	9.0
264	Miscellaneous converted paper products -----	-	8	3	0.4	6.2	0.3	0.6	4.8	12.7	11.4	24.2	0.6	(NA)	(NA)
265	Paperboard containers and boxes -----	E1	7	3	0.3	3.5	0.2	0.4	2.1	7.5	3.6	10.9	0.1	(NA)	(NA)
27	Printing and publishing ----	-	863	185	22.8	339.8	11.3	19.9	146.0	857.0	481.8	1 337.8	28.2	21.6	423.1
2711	Newspapers -----	-	75	17	6.5	102.9	2.6	4.0	38.8	219.4	95.7	314.6	7.1	7.0	127.6
2721	Periodicals -----	-	118	25	4.0	60.0	0.2	0.4	2.7	195.5	128.4	328.7	2.8	4.6	123.2
275	Commercial printing -----	E1	406	79	6.2	93.2	4.9	9.1	66.4	158.6	122.3	279.1	9.5	5.4	87.8
2751	Commercial printing, letterpress -----	E4	203	18	1.2	14.0	1.0	1.7	10.0	25.7	17.9	43.5	1.4	1.5	21.5
2752	Commercial printing, lithographic -----	-	185	60	4.9	77.7	3.8	7.3	55.5	130.6	103.3	232.2	8.0	3.7	63.7
279	Printing trade services ----	E1	96	22	1.3	19.2	1.0	1.9	14.3	30.9	5.9	36.5	1.5	1.3	22.9
2791	Typesetting -----	E1	80	18	1.0	12.9	0.8	1.4	9.9	21.0	2.8	23.7	1.3	1.0	16.3
2795	Lithographic platemaking services --	-	12	4	0.3	6.2	0.2	0.5	4.3	9.7	3.0	12.6	(D)	(NA)	(NA)
28	Chemicals and allied products -----	E1	44	11	1.4	18.5	0.9	1.7	8.2	45.1	44.9	88.0	12.8	1.1	25.7
283	Drugs -----	-	12	6	0.8	8.9	0.5	0.9	3.6	20.1	14.5	34.6	(D)	(NA)	(NA)
2834	Pharmaceutical preparations -----	-	4	3	0.4	3.9	0.2	0.4	1.4	9.7	8.8	18.5	(D)	(NA)	(NA)
289	Miscellaneous chemical products -----	-	13	1	0.3	4.9	0.2	0.3	2.4	9.1	13.8	22.5	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	E1	29	6	0.4	4.7	0.3	0.6	2.6	7.8	8.7	16.4	1.3	(NA)	(NA)
32	Stone, clay, and glass products -----	-	78	33	2.7	33.8	2.1	4.2	24.2	77.3	90.6	167.6	5.2	3.1	62.2
327	Concrete, gypsum, and plaster products -----	-	54	27	2.4	30.5	1.8	3.8	22.0	70.4	86.4	156.4	4.8	2.6	55.9
3271	Concrete block and brick -----	-	10	5	0.3	3.3	0.2	0.3	1.6	7.1	11.4	18.5	0.5	(NA)	(NA)
3272	Concrete products, n.e.c. -----	E1	20	9	0.5	5.1	0.4	0.7	3.2	10.8	6.6	17.2	0.8	0.8	12.3
3273	Ready-mixed concrete --	-	24	13	1.7	22.1	1.3	2.7	17.2	52.5	68.4	120.7	3.5	1.6	38.5
34	Fabricated metal products --	E1	124	37	2.8	37.9	2.1	3.9	24.0	62.2	67.5	127.7	3.7	2.8	46.6
344	Fabricated structural metal products -----	-	75	30	2.4	33.2	1.7	3.2	20.7	53.7	61.6	113.3	3.0	2.4	40.5
3441	Fabricated structural metal -----	E1	17	12	0.9	13.5	0.7	1.4	7.7	23.8	28.9	50.9	1.4	1.0	18.4
3443	Fabricated plate work (boiler shops) -----	-	5	2	0.3	3.8	0.2	0.4	3.1	5.0	2.6	7.4	(D)	(NA)	(NA)
3444	Sheet metal work -----	-	16	4	0.5	6.8	0.4	0.7	5.3	10.9	10.0	20.9	0.3	0.4	6.3
3446	Architectural metal work -----	-	26	7	0.4	5.4	0.3	0.5	3.0	9.2	6.0	15.2	(D)	0.5	6.4
35	Machinery, except electrical -	E1	128	26	1.9	25.4	1.2	2.4	13.2	51.3	29.6	80.2	(D)	2.2	29.4
358	Refrigeration and service machinery -----	-	11	4	0.3	4.1	0.2	0.4	2.1	10.2	7.2	17.3	0.2	0.3	5.5
3585	Refrigeration and heating equipment -----	-	8	4	0.3	3.8	0.2	0.4	1.9	9.7	7.0	16.5	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E2	64	8	0.6	7.0	0.5	0.9	5.0	12.0	6.1	17.9	0.8	0.6	7.6
3599	Machinery, except electrical, n.e.c. -----	E2	64	8	0.6	7.0	0.5	0.9	5.0	12.0	6.1	17.9	0.8	0.6	7.6
36	Electric and electronic equipment -----	-	148	50	10.7	178.0	4.4	8.6	46.2	345.9	151.5	482.2	16.1	8.3	203.3
366	Communication equipment -----	-	66	32	9.2	159.9	3.3	6.4	36.0	312.6	128.3	426.0	13.3	4.5	94.5
367	Electronic components and accessories -----	E3	44	9	0.8	9.0	0.6	1.2	5.5	16.5	9.2	25.3	1.7	3.0	97.2
3679	Electronic components, n.e.c. -----	E4	36	5	0.4	4.8	0.3	0.5	3.0	8.9	5.4	14.1	1.1	(NA)	(NA)
37	Transportation equipment --	-	16	3	0.7	11.4	0.6	1.3	9.2	19.3	14.3	34.7	0.5	1.5	33.3

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SMSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SMSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Washington, D.C.-Md.-Va., SMSA—Con.														
38	Instruments and related products -----	-	90	26	2.9	44.6	1.5	2.8	18.4	70.2	36.4	105.0	3.0	1.5	26.4
3811	Engineering and scientific instruments --	E4	17	4	0.3	3.9	0.2	0.3	2.1	6.7	3.4	9.7	0.7	0.4	5.8
382	Measuring and controlling devices -----	-	23	9	1.4	23.6	0.8	1.6	10.6	31.1	13.6	44.5	1.1	(NA)	(NA)
3832	Optical instruments and lenses -----	-	11	5	0.4	5.2	0.1	0.3	1.6	10.3	5.4	15.2	0.4	0.3	6.4
384	Medical instruments and supplies -----	-	17	3	0.4	5.6	0.2	0.3	1.5	10.0	6.3	16.0	0.5	(NA)	(NA)
3861	Photographic equipment and supplies -----	-	13	4	0.4	5.9	0.2	0.3	2.3	11.4	7.3	18.5	0.3	0.4	7.0
39	Miscellaneous manufacturing industries ---	E3	87	11	0.7	7.9	0.5	0.9	4.6	13.2	8.6	21.8	0.4	0.9	12.0
399	Miscellaneous manufactures -----	E3	54	9	0.6	6.5	0.4	0.7	3.8	10.7	6.1	16.8	0.3	0.7	10.4
3993	Signs and advertising displays -----	E2	35	8	0.5	5.8	0.3	0.6	3.4	9.3	5.0	14.3	0.3	0.5	7.5
--	Administrative and auxiliary --	-	146	48	5.3	116.0	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B). - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.

(Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
20	Accomack County -----	-	53	18	3.5	23.7	3.2	5.1	18.8	66.8	151.4	218.5	4.5	2.6	21.8
	Food and kindred products --	-	33	14	3.1	20.4	2.7	4.5	16.5	60.4	145.6	206.3	(D)	2.1	17.8
	Albemarle County -----	-	30	9	4.1	43.6	3.1	6.5	28.4	118.8	146.4	262.0	(D)	3.3	56.2
	Amherst County -----	-	32	7	0.7	9.3	0.4	0.8	4.4	16.6	22.1	38.5	(D)	(D)	(D)
	Appomattox County -----	-	29	8	1.2	8.4	1.0	1.9	5.9	14.5	15.8	30.4	(D)	0.9	10.7
27	Arlington County -----	-	110	22	1.3	19.5	0.7	1.3	7.8	25.0	13.8	38.9	1.8	1.4	19.1
	Printing and publishing -----	E2	70	12	0.8	10.8	0.5	1.0	6.1	20.1	8.7	28.8	1.5	0.8	12.0
	Augusta County -----	-	58	13	2.8	30.7	2.4	4.9	21.9	58.6	54.3	109.9	1.5	3.2	37.6
35	Machinery, except electrical --	-	12	1	0.6	8.7	0.4	0.8	4.5	7.2	11.6	19.0	(D)	(NA)	(NA)
	Bedford County -----	-	25	4	0.7	7.9	0.5	1.0	5.6	23.8	26.6	50.4	(D)	0.8	14.5
	Bland County -----	-	8	3	0.5	3.2	0.4	0.9	2.6	5.7	3.0	8.1	(D)	0.3	1.8
24	Brunswick County -----	-	52	13	1.5	9.7	1.3	2.3	7.8	18.5	20.6	39.0	(D)	1.4	10.8
	Lumber and wood products --	E3	51	9	0.6	4.6	0.5	1.0	3.7	10.4	13.0	23.2	(D)	0.5	3.2
	Buckingham County -----	-	57	6	0.5	3.5	0.5	0.9	2.8	8.2	7.0	15.1	0.6	0.6	4.5

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
22	Campbell County-----	-	69	18	5.5	43.1	4.5	8.5	31.0	123.2	99.4	221.2	8.6	4.3	61.8
	Caroline County-----	-	29	10	0.8	5.6	0.7	1.2	4.5	12.0	23.5	35.4	(D)	0.7	9.1
	Carroll County-----	-	25	9	1.8	13.6	1.7	3.2	12.1	24.8	27.2	51.1	0.7	1.1	14.7
	Charlotte County-----	-	56	7	1.9	15.8	1.6	3.2	11.3	25.9	38.5	65.2	4.1	1.0	8.1
	Textile mill products-----	-	3	3	0.8	6.4	0.7	1.3	5.3	12.2	22.5	34.7	(D)	0.7	5.5
	Chesterfield County-----	-	91	35	7.4	109.3	5.2	9.9	69.5	240.4	359.3	593.4	16.4	16.3	374.3
	Clarke County-----	-	9	4	1.1	9.6	0.9	1.7	6.4	15.1	14.5	29.5	0.6	(D)	(D)
	Culpeper County-----	-	36	12	1.4	13.4	1.1	2.1	8.6	38.5	55.6	91.8	3.9	1.3	15.8
	Dinwiddie County-----	-	16	4	0.5	3.2	0.4	0.7	2.6	9.2	11.5	20.7	(D)	0.6	4.3
	Essex County-----	-	27	6	1.2	9.4	1.0	1.8	7.1	13.5	28.1	40.0	1.7	0.8	13.2
20 275	Fairfax County-----	-	261	69	7.6	107.8	4.3	8.4	48.7	193.3	158.4	345.9	11.5	6.0	103.9
	Food and kindred products---	-	8	5	0.5	7.3	0.2	0.5	2.3	17.5	38.4	56.0	0.4	0.5	11.5
	Commercial printing-----	E2	40	7	0.5	6.7	0.4	0.7	4.7	13.1	7.3	20.3	(D)	(NA)	(NA)
34	Fabricated metal products---	E2	25	7	0.5	5.9	0.4	0.7	3.7	11.8	16.7	28.4	0.8	(NA)	(NA)
38	Instruments and related products-----	-	18	10	1.3	21.9	0.6	1.2	9.8	32.4	18.4	50.1	1.2	0.5	11.4
24	Floyd County-----	-	22	5	0.5	3.5	0.5	0.9	3.2	5.2	3.1	8.3	(D)	0.5	3.1
	Franklin County-----	-	57	23	4.4	37.1	3.7	6.7	26.0	76.7	124.5	200.3	5.1	3.2	38.3
	Lumber and wood products---	-	32	10	1.8	15.4	1.3	2.3	8.7	31.2	44.0	74.9	(D)	1.7	19.9
	Frederick County-----	-	13	6	1.5	20.1	1.3	2.9	17.0	52.9	99.4	150.7	3.3	1.4	11.9
	Giles County-----	-	19	9	2.7	32.4	2.2	4.6	24.8	90.7	93.3	182.1	5.5	2.7	47.4
	Grayson County-----	-	14	8	2.0	11.7	1.8	3.1	9.9	20.0	23.2	43.0	0.5	2.5	18.3
	Hanover County-----	-	81	22	1.8	18.9	1.3	2.4	11.0	29.7	45.8	75.0	4.6	1.2	12.3
24	Lumber and wood products---	E2	33	9	0.6	6.6	0.6	1.1	5.0	9.7	19.9	28.9	(D)	0.5	5.1
26	Henrico County-----	-	143	55	9.2	128.5	5.3	10.1	55.6	258.1	253.2	515.3	22.6	4.0	57.4
	Paper and allied products---	-	8	7	0.9	9.8	0.7	1.3	6.6	19.2	39.0	58.1	(D)	(NA)	(NA)
27 275	Printing and publishing-----	-	29	7	0.9	10.0	0.7	1.2	6.6	18.0	14.3	32.2	(D)	(NA)	(NA)
35	Commercial printing-----	-	18	5	0.7	8.8	0.5	1.0	5.8	14.9	12.7	27.6	1.5	(NA)	(NA)
	Machinery, except electrical---	-	18	5	0.5	6.7	0.3	0.7	4.4	2.6	6.0	15.9	0.7	(NA)	(NA)
20	Henry County-----	-	55	26	11.2	99.6	9.9	21.0	80.1	269.4	269.1	532.1	14.9	12.4	215.1
	Isle of Wight County-----	-	20	8	3.9	38.5	3.0	4.6	25.3	82.1	246.9	328.9	7.9	2.9	45.4
	Lancaster County-----	-	41	13	0.7	4.7	0.6	1.0	3.2	10.9	19.8	30.8	0.7	0.5	2.9
	Food and kindred products---	E1	25	9	0.5	2.7	0.4	0.6	2.0	6.7	16.2	22.9	0.3	(NA)	(NA)
232	Lee County-----	-	15	6	0.6	3.3	0.5	0.9	2.9	4.8	4.5	9.2	0.2	0.3	1.5
	Loudoun County-----	-	37	11	0.6	7.1	0.4	0.8	4.3	21.8	12.6	34.6	(D)	0.4	8.1
	Louisa County-----	-	45	10	1.2	7.8	1.1	2.0	6.7	17.0	9.9	26.7	(D)	1.4	9.8
	Lunenburg County-----	-	36	13	2.0	14.2	1.9	3.3	11.7	29.5	46.2	75.6	1.2	1.7	14.5
	Mecklenburg County-----	-	57	23	5.3	40.3	4.8	8.5	28.9	95.3	193.0	286.2	4.4	5.1	47.4
	Men's and boys' furnishings-----	-	3	3	1.0	5.7	0.9	1.9	5.0	11.4	11.3	22.6	(D)	1.0	6.5
	Lumber and wood products---	-	29	7	0.9	6.5	0.8	1.3	4.4	13.0	19.8	32.2	(D)	0.7	6.5
24	Montgomery County-----	-	38	16	3.2	30.3	2.5	5.1	20.3	66.5	74.2	139.4	2.4	2.3	29.7
20	Northampton County-----	-	20	9	1.1	6.4	1.0	1.7	4.3	12.2	24.2	36.3	(D)	1.0	11.6
	Food and kindred products---	-	11	6	0.7	3.8	0.6	1.2	2.1	7.7	20.4	28.1	(D)	(NA)	(NA)
20	Northumberland County-----	-	36	6	0.8	8.2	0.8	1.3	5.7	24.5	24.2	46.7	1.8	0.7	8.0
	Food and kindred products---	-	21	5	0.7	7.0	0.7	1.1	4.8	21.4	22.0	41.5	(D)	0.5	6.5
	Nottoway County-----	-	32	12	1.2	8.7	1.1	2.1	7.4	17.4	29.2	46.1	1.7	1.0	9.7
	Orange County-----	-	28	12	1.9	15.6	1.7	3.2	12.1	44.8	32.7	77.2	3.8	2.1	26.0
	Page County-----	-	22	10	2.2	17.1	1.9	3.6	13.6	73.2	104.7	172.6	3.3	2.0	39.6
	Patrick County-----	-	44	6	1.8	15.6	1.6	3.4	12.1	29.7	29.9	59.0	1.2	(D)	(D)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
24	Pittsylvania County -----	-	55	18	7.0	84.2	5.6	11.5	60.9	219.1	507.4	728.1	29.8	4.6	104.9
	Lumber and wood products --	E1	28	4	0.5	5.7	0.5	1.0	4.2	13.5	16.2	29.7	(D)	(NA)	(NA)
	Prince Edward County -----	-	27	8	1.3	9.0	1.1	2.0	6.9	19.8	19.0	38.8	3.1	1.6	11.7
	Prince William County -----	-	38	9	1.0	14.1	0.8	1.6	8.9	27.5	24.6	50.9	0.9	2.9	101.1
	Pulaski County -----	-	43	24	5.9	51.7	4.9	9.9	38.2	102.5	289.6	389.7	7.4	5.4	83.4
	Richmond County -----	-	20	6	0.6	4.4	0.5	0.9	3.6	18.6	17.1	33.6	0.6	0.6	8.0
	Roanoke County -----	-	51	23	3.2	36.2	2.3	4.7	23.3	84.0	85.0	169.7	13.6	1.6	26.0
	Rockingham County -----	-	69	25	5.2	49.9	4.3	8.3	36.8	153.5	272.8	421.2	25.1	4.8	73.7
20	Food and kindred products --	-	18	9	2.4	18.6	2.1	4.2	14.5	31.4	175.9	206.8	(D)	2.0	21.6
201	Meat products -----	-	7	6	2.2	17.2	1.9	4.0	13.6	27.0	142.3	169.1	(D)	1.7	17.8
23	Apparel and other textile products -----	-	3	3	1.0	6.4	1.0	1.7	5.8	28.0	4.7	33.4	(D)	1.4	8.3
232	Men's and boys' furnishings -----	-	3	3	1.0	6.4	1.0	1.7	5.8	28.0	4.7	33.4	(D)	1.1	5.6
	Russell County -----	-	16	6	1.1	5.2	1.0	1.8	5.4	5.5	3.5	12.2	0.4	1.0	5.8
	Shenandoah County -----	-	46	23	4.0	33.0	3.4	6.6	24.9	77.8	124.0	201.8	6.6	3.8	49.0
	Food and kindred products --	-	9	5	0.8	5.4	0.7	1.2	4.0	14.3	76.7	90.9	0.9	1.0	17.7
20	Smyth County -----	-	42	17	4.7	36.9	4.0	6.9	25.1	75.2	71.2	149.3	6.6	5.3	39.8
24	Lumber and wood products --	-	6	3	0.7	5.9	0.6	1.1	4.4	13.0	14.9	28.1	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members -----	-	3	3	0.7	5.9	0.6	1.1	4.3	12.9	14.8	27.9	(D)	(NA)	(NA)
2431	Millwork -----	-	3	3	0.7	5.9	0.6	1.1	4.3	12.9	14.8	27.9	(D)	(NA)	(NA)
25	Furniture and fixtures -----	-	3	3	1.6	11.0	1.5	2.6	8.1	19.1	15.6	34.9	(D)	(NA)	(NA)
251	Household furniture -----	-	3	3	1.6	11.0	1.5	2.6	8.1	19.1	15.6	34.9	(D)	(NA)	(NA)
2511	Wood household furniture -----	-	3	3	1.6	11.0	1.5	2.6	8.1	19.1	15.6	34.9	(D)	(NA)	(NA)
	Spotsylvania County -----	-	20	7	1.8	22.0	1.4	2.8	15.4	44.8	68.3	111.8	4.5	0.6	9.1
	Sussex County -----	-	23	6	0.8	8.1	0.6	1.4	6.3	19.2	31.6	51.3	1.4	0.6	6.2
	Lumber and wood products --	-	18	4	0.5	4.9	0.4	0.9	3.7	12.2	20.1	32.3	(D)	0.5	7.8
24	Tazewell County -----	-	57	22	2.4	25.4	1.8	3.3	15.8	44.0	77.3	125.6	4.7	2.6	29.4
35	Machinery, except electrical --	-	17	5	1.0	12.2	0.6	1.2	6.7	20.9	44.3	69.4	(D)	(NA)	(NA)
353	Construction and related machinery -----	-	12	3	0.9	11.3	0.6	1.1	6.0	19.2	43.4	68.8	(D)	(NA)	(NA)
	Washington County -----	-	41	15	2.6	25.3	2.1	3.8	17.6	60.4	85.4	147.1	8.6	(D)	(D)
	Westmoreland County -----	-	38	12	0.7	4.5	0.6	0.9	3.3	9.7	17.5	27.0	(D)	0.7	6.9
	Wise County -----	-	29	8	0.7	6.2	0.6	1.0	3.9	11.5	16.4	27.6	0.5	0.9	5.6
	Wythe County -----	-	34	15	2.1	15.5	1.8	3.5	11.7	35.2	31.0	64.5	4.4	1.8	16.3
	Apparel and other textile products -----	-	6	4	0.7	3.7	0.6	1.1	3.4	5.2	1.7	7.0	(D)	0.5	2.9
	Alexandria (Independent city) (See table 8.)														
	Bedford (Independent city) (See table 8.)														
	Bristol (Independent city) (See table 8.)														
	Buena Vista (Independent city) (See table 8.)														
	Charlottesville (Independent city) (See table 8.)														
	Chesapeake (Independent city) (See table 8.)														
	Danville (Independent city) (See table 8.)														
	Emporia (Independent city) (See table 8.)														

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977										1972		
		E ¹	All estab- lishments	All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)							Wages (million dollars)
23	Wythe County—Con. Apparel and other textile products—Con. Franklin (Independent city) (See table 8.) Fredericksburg (Independent city) (See table 8.) Galax (Independent city) (See table 8.) Hampton (Independent city) (See table 8.) Harrisonburg (Independent city) (See table 8.) Hopewell (Independent city) (See table 8.) Lynchburg (Independent city) (See table 8.) Martinsville (Independent city) (See table 8.) Newport News (Independent city) (See table 8.) Norfolk (Independent city) (See table 8.) Portsmouth (Independent city) (See table 8.) Radford (Independent city) (See table 8.) Richmond (Independent city) (See table 8.) Roanoke (Independent city) (See table 8.) Salem (Independent city) (See table 8.) Suffolk (Independent city) (See table 8.) Waynesboro (Independent city) (See table 8.) Winchester (Independent city) (See table 8.)													

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)	
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)							
27	Abingdon -----	-	23	5	0.7	5.1	0.6	1.1	3.7	10.0	15.7	25.6	0.3	(D)	(D)	
	Alexandria -----	-	97	25	2.4	34.0	1.4	2.6	15.5	169.7	90.5	258.5	2.1	(NA)	(NA)	
	Printing and publishing -----	E1	35	8	0.7	12.2	0.3	0.5	3.6	130.3	46.4	175.2	0.5	(NA)	(NA)	
	Altavista -----	-	15	10	4.1	32.5	3.2	6.2	22.4	95.5	63.5	157.8	6.5	3.2	45.8	
27	Arlington (U) -----	-	110	22	1.3	19.5	0.7	1.3	7.8	25.0	13.8	38.9	1.8	1.4	19.1	
	Printing and publishing -----	E2	70	12	0.8	10.8	0.5	1.0	6.1	20.1	8.7	28.8	1.5	0.8	12.0	
	Ashland -----	-	34	7	0.6	5.0	0.5	0.9	3.5	12.1	18.0	28.1	0.8	0.5	5.5	
	Bedford -----	-	31	12	2.6	23.5	2.0	3.8	16.1	54.4	47.6	101.7	(D)	(NA)	(NA)	
23	Blacksburg -----	-	13	4	1.4	14.4	1.1	2.3	10.3	31.3	15.9	46.1	1.5	(D)	(D)	
	Blackstone -----	-	22	9	0.9	6.2	0.8	1.5	5.2	12.6	12.0	24.2	1.6	0.8	8.4	
	Bluefield -----	-	22	12	0.8	9.1	0.6	1.2	5.7	18.8	28.2	47.6	1.5	1.0	15.0	
	Bridgewater -----	-	13	6	1.1	8.2	1.0	1.9	7.2	23.4	35.7	50.2	0.8	1.1	11.7	
	Bristol -----	-	59	32	5.4	63.7	4.0	7.9	41.6	133.2	233.9	364.6	8.6	(NA)	(NA)	
	Apparel and other textile products -----	-	5	5	0.8	5.1	0.7	1.2	4.1	8.4	5.2	13.3	(D)	(NA)	(NA)	
	Buena Vista -----	-	15	10	1.5	15.3	1.2	2.4	10.5	48.1	65.3	112.6	2.3	(NA)	(NA)	
	Charlottesville -----	-	68	20	3.4	37.7	2.4	4.5	20.7	70.8	79.5	146.8	5.0	(NA)	(NA)	
	Printing and publishing -----	-	18	2	0.5	5.6	0.3	0.7	3.4	9.9	3.7	13.5	0.3	(NA)	(NA)	
	36	Electric and electronic equipment -----	-	11	3	1.3	15.6	0.9	1.8	8.9	30.6	28.9	56.7	(D)	(NA)	(NA)
		Chase City -----	-	16	7	1.3	7.2	1.2	2.3	6.2	16.8	14.5	31.5	(D)	1.4	9.1
	287	Chesapeake -----	-	61	28	3.1	34.4	2.4	4.4	23.8	89.1	212.5	298.3	7.8	(NA)	(NA)
Agricultural chemicals -----		-	4	4	0.5	4.5	0.3	0.6	2.9	11.4	28.9	42.3	(D)	(NA)	(NA)	
Christiansburg -----		-	19	10	1.5	11.1	1.1	2.2	7.2	23.1	41.0	62.4	0.6	(NA)	(NA)	
Culpeper -----		-	29	12	1.4	12.8	1.1	2.1	8.4	37.7	53.7	89.0	3.9	1.2	15.4	
--	Danville -----	-	69	26	12.1	114.5	10.0	20.5	84.0	192.0	207.0	394.1	16.3	(NA)	(NA)	
	Administrative and auxiliary -----	-	7	4	0.6	7.5	-	-	-	-	-	-	-	(NA)	(NA)	
	Emporia -----	-	39	14	1.8	14.5	1.5	3.0	11.2	50.2	53.1	101.3	(D)	(NA)	(NA)	
	24	Lumber and wood products -----	-	25	5	0.5	5.1	0.5	0.9	4.0	21.0	23.3	44.3	(D)	(NA)	(NA)
Franklin -----		-	15	9	0.7	6.8	0.6	1.1	5.0	39.3	31.2	69.7	1.7	(NA)	(NA)	
Fredericksburg -----		-	38	15	1.4	12.8	1.2	2.2	9.4	27.8	42.8	69.6	1.1	(NA)	(NA)	
Galax -----		-	45	16	4.0	32.7	4.5	8.1	26.8	61.3	79.1	138.8	2.4	(NA)	(NA)	
22	Textile mill products -----	-	3	3	1.8	14.4	1.7	2.9	11.8	28.0	42.1	69.0	(D)	(NA)	(NA)	
	25	Furniture and fixtures -----	-	9	8	2.1	11.7	1.9	3.7	9.5	23.3	24.2	47.3	(D)	(NA)	(NA)
Hampton -----		-	70	24	2.6	26.0	2.0	3.9	16.4	50.6	55.9	106.0	2.7	(NA)	(NA)	
Harrisonburg -----		-	45	23	3.6	33.2	2.8	5.5	22.5	89.3	136.2	226.2	6.6	(NA)	(NA)	
34		Fabricated metal products -----	-	5	3	0.7	6.1	0.5	0.9	4.2	14.4	11.6	25.3	(D)	(NA)	(NA)
	Hopewell -----	-	20	8	4.8	78.1	3.4	6.8	54.0	263.5	298.5	556.4	56.8	(NA)	(NA)	
	Luray -----	-	16	5	1.4	11.4	1.2	2.1	8.9	52.2	80.5	128.3	(D)	1.2	32.8	
	Lynchburg -----	-	134	70	19.9	256.9	12.9	25.7	144.0	554.5	395.9	952.4	25.0	(NA)	(NA)	
23	Apparel and other textile products -----	-	9	9	1.2	7.1	1.0	1.8	4.8	12.1	9.1	20.8	(D)	(NA)	(NA)	
	27	Printing and publishing -----	-	18	5	0.9	11.3	0.6	1.2	7.6	28.6	16.7	45.1	(D)	(NA)	(NA)
35		Machinery, except electrical -----	-	15	7	1.2	17.3	0.9	1.8	11.3	26.3	39.9	66.5	1.6	(NA)	(NA)
	Marion -----	-	23	10	2.9	23.7	2.3	4.1	15.6	52.4	44.4	97.4	5.0	3.2	24.3	
	Martinsville -----	-	66	30	14.4	143.0	12.1	22.5	99.7	261.7	248.7	507.2	15.7	(NA)	(NA)	
	225 2253	Textile mill products -----	-	2	2	4.4	32.2	3.9	7.0	23.2	65.1	52.7	116.5	2.9	(NA)	(NA)
Knitting mills -----		-	2	2	4.4	32.2	3.9	7.0	23.2	65.1	52.7	116.5	2.9	(NA)	(NA)	
Knit outerwear mills -----		-	2	2	4.4	32.2	3.9	7.0	23.2	65.1	52.7	116.5	2.9	(NA)	(NA)	
24		Lumber and wood products -----	-	14	8	1.4	12.6	1.1	2.0	7.3	22.5	52.2	75.0	1.9	(NA)	(NA)
	245	Wood buildings and mobile homes -----	-	4	4	1.1	9.6	0.8	1.4	5.4	18.0	44.9	63.2	1.5	(NA)	(NA)
2452		Prefabricated wood buildings -----	-	4	4	1.1	9.6	0.8	1.4	5.4	18.0	44.9	63.2	1.5	(NA)	(NA)
	25	Furniture and fixtures -----	-	8	4	3.3	24.7	3.0	5.8	20.4	47.1	35.3	81.9	(D)	(NA)	(NA)
251		Household furniture -----	-	8	4	3.3	24.7	3.0	5.8	20.4	47.1	35.3	81.9	(D)	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
		E ¹													
2051	Newport News -----	-	78	32	28.9	382.1	24.8	48.7	325.2	555.8	446.8	1 004.7	(D)	(NA)	(NA)
	Norfolk -----	-	245	90	13.5	183.8	9.4	19.9	119.7	539.6	983.8	1 519.5	23.5	(NA)	(NA)
209	Bread, cake, and related products -----	-	5	5	0.6	6.6	0.2	0.6	2.4	16.6	10.5	27.2	1.4	(NA)	(NA)
34	Miscellaneous foods and kindred products -----	-	9	3	0.6	4.6	0.4	0.8	2.7	9.0	22.7	31.7	(D)	(NA)	(NA)
	Fabricated metal products ---	-	24	8	0.6	7.3	0.4	0.8	4.4	11.8	15.0	26.0	0.4	(NA)	(NA)
344	Fabricated structural metal products -----	-	15	8	0.5	6.8	0.4	0.7	4.1	11.0	14.2	24.5	0.3	(NA)	(NA)
373	Ship and boat building and repairing -----	-	14	9	2.9	41.1	2.6	5.9	32.4	60.0	29.0	89.0	(D)	(NA)	(NA)
	Orange -----	-	15	8	1.3	9.4	1.1	2.0	7.1	29.1	17.1	45.9	(D)	0.8	7.4
	Petersburg -----	-	51	24	5.6	68.6	4.7	7.9	54.2	368.6	254.7	621.2	36.1	(NA)	(NA)
	Portsmouth -----	-	65	23	2.3	27.8	1.6	3.0	14.6	61.6	110.3	172.3	5.8	(NA)	(NA)
	Pulaski -----	-	27	15	3.3	27.3	2.9	5.5	21.0	53.5	63.7	118.7	(D)	(D)	(D)
22	Textile mill products -----	-	4	4	1.3	9.5	1.2	2.4	8.2	12.8	19.5	32.3	(D)	(NA)	(NA)
	Radford -----	-	21	11	5.8	71.0	4.5	8.5	48.2	150.5	80.4	230.3	(D)	(NA)	(NA)
	Richmond -----	-	403	173	34.8	473.0	22.4	41.8	258.4	1 459.0	1 730.0	3 163.6	82.5	(NA)	(NA)
20	Food and kindred products --	-	32	19	2.4	29.2	1.3	2.8	14.2	79.4	119.5	198.8	(D)	(NA)	(NA)
2086	Bottled and canned soft drinks -----	-	7	6	0.5	6.1	0.2	0.5	2.0	20.1	26.8	46.6	1.0	(NA)	(NA)
23	Apparel and other textile products -----	-	22	16	2.5	18.2	2.1	3.7	12.3	27.2	24.3	51.4	(D)	(NA)	(NA)
25	Furniture and fixtures -----	-	23	8	1.0	9.7	0.8	1.5	5.6	15.3	21.0	36.8	(D)	(NA)	(NA)
26	Paper and allied products ---	-	26	22	2.9	35.5	2.3	4.5	24.6	71.3	154.2	224.2	(D)	(NA)	(NA)
265	Paperboard containers and boxes -----	-	16	12	1.6	20.1	1.3	2.5	14.0	43.6	95.6	138.5	3.7	(NA)	(NA)
27	Printing and publishing -----	-	100	24	3.2	37.4	1.7	3.0	18.0	74.0	38.1	112.0	(D)	(NA)	(NA)
275	Commercial printing -----	E1	63	12	0.9	10.9	0.7	1.1	6.8	17.7	18.0	35.7	0.6	(NA)	(NA)
32	Stone, clay, and glass products -----	-	15	7	0.5	6.1	0.3	0.7	3.0	16.0	12.1	27.7	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	32	12	1.7	25.0	1.3	2.6	17.5	28.5	119.6	143.2	(D)	(NA)	(NA)
35	Machinery, except electrical --	E2	37	12	1.1	15.7	0.6	1.3	7.5	24.1	16.1	41.8	1.2	(NA)	(NA)
-	Administrative and auxiliary --	-	17	10	1.1	20.0	-	-	-	-	-	-	-	(NA)	(NA)
	Roanoke -----	-	127	57	9.7	96.5	7.1	13.3	60.6	219.5	189.8	406.4	11.1	(NA)	(NA)
	Food and kindred products --	-	16	10	1.1	11.5	0.6	1.1	5.3	29.7	36.5	66.4	1.6	(NA)	(NA)
20	Apparel and other textile products -----	-	12	9	1.8	10.5	1.5	2.3	7.0	13.6	7.1	22.3	0.7	(NA)	(NA)
233	Women's and misses' outerwear -----	-	6	5	1.5	8.4	1.2	1.9	5.6	9.5	3.8	15.0	(D)	(NA)	(NA)
27	Printing and publishing -----	-	19	5	0.8	8.6	0.4	0.7	3.7	16.3	7.4	23.8	0.8	(NA)	(NA)
34	Fabricated metal products ---	-	9	3	0.5	6.2	0.4	0.7	3.1	11.1	11.7	22.8	(D)	(NA)	(NA)
	Rocky Mount -----	-	32	16	3.6	30.3	3.1	5.7	21.8	62.2	93.1	154.2	4.7	2.3	26.5
	Salem -----	-	51	22	7.0	88.6	4.9	9.4	51.3	197.9	195.5	391.8	10.0	(NA)	(NA)
34	Fabricated metal products ---	-	6	5	0.5	6.4	0.4	0.8	4.1	15.1	14.3	29.2	0.7	(NA)	(NA)
35	Machinery, except electrical --	-	8	3	0.7	9.2	0.5	1.0	6.0	18.1	17.5	35.7	0.9	(NA)	(NA)
	South Hill -----	-	15	8	0.9	7.4	0.7	1.3	4.8	14.8	24.5	39.2	0.7	0.7	6.3
	Suffolk -----	-	75	34	6.6	69.1	5.2	9.9	46.7	369.7	465.7	855.5	10.6	(NA)	(NA)
24	Lumber and wood products ---	E1	24	12	0.7	4.9	0.6	1.2	4.0	8.9	17.3	26.0	0.9	(NA)	(NA)
	Vienna -----	-	17	3	0.6	7.1	0.5	1.0	5.4	12.0	5.8	17.1	0.5	(NA)	(NA)
	Vinton -----	-	9	3	0.7	6.6	0.6	1.3	5.5	15.0	27.4	42.3	(D)	(D)	(D)
	Waynesboro -----	-	35	19	7.6	104.8	5.2	10.1	59.2	238.0	160.0	393.2	32.3	(NA)	(NA)
	Winchester -----	-	59	26	6.3	67.5	4.9	9.5	45.9	155.0	167.8	321.5	11.8	(NA)	(NA)
20	Food and kindred products --	-	13	8	1.1	12.1	0.7	1.3	5.9	33.4	45.1	78.7	2.7	(NA)	(NA)
	Wytheville -----	-	19	11	1.6	12.1	1.3	2.6	8.8	29.6	27.4	55.5	3.8	1.4	14.6

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
VIRGINIA	5519	543	19	100	287	1424	175	97	800	155	22	86	27	335	64	297	414	175	131	80	130
1 TO 4 EMPLOYEES	2509	156	13	4	48	874	56	13	409	52	10	13	7	95	15	96	158	59	53	35	69
5 TO 9 EMPLOYEES	775	54	2	1	12	160	13	9	132	27	5	10	2	55	6	40	61	28	15	12	15
10 TO 19 EMPLOYEES	781	70	1	4	13	164	13	13	96	27	3	15	2	76	9	43	72	22	14	7	17
20 TO 49 EMPLOYEES	801	107	2	10	37	128	16	11	97	24	2	22	3	58	6	49	61	13	19	10	13
50 TO 99 EMPLOYEES	442	78	2	9	52	49	18	18	35	8	1	4	3	24	7	31	27	10	6	8	17
100 TO 249 EMPLOYEES	416	51	6	19	78	36	19	21	20	7	1	7	6	22	10	21	19	17	11	6	4
250 TO 499 EMPLOYEES	192	16	2	19	39	11	8	5	5	5	1	9	5	3	12	10	13	5	2	4	23
500 TO 999 EMPLOYEES	99	6	2	15	8	2	16	1	4	3	1	3	1	2	6	5	5	9	5	2	2
1000 TO 2499 EMPLOYEES	49	5	2	8	3	2	3	3	2	11	2	3	1	2	2	2	1	4	2	1	2
2500 EMPLOYEES AND OVER	10	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
ACCOMACK COUNTY	63	33	1	1	3	15	1	1	2	1	1	1	1	6	1	1	1	1	2	1	1
1 TO 19 EMPLOYEES	42	19	1	1	2	14	1	1	1	1	1	1	1	4	1	1	1	1	2	1	1
20 TO 99 EMPLOYEES	11	8	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1
100 TO 249 EMPLOYEES	18	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ALBEMARLE COUNTY	30	2	1	1	1	16	1	1	1	1	1	1	1	1	1	1	2	4	1	1	1
1 TO 19 EMPLOYEES	21	1	1	1	1	15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20 TO 99 EMPLOYEES	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100 TO 249 EMPLOYEES	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1
ALLEGHANY COUNTY	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1 TO 19 EMPLOYEES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20 TO 99 EMPLOYEES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100 TO 249 EMPLOYEES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
AMELIA COUNTY	21	1	1	1	1	16	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1
1 TO 19 EMPLOYEES	12	1	1	1	1	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20 TO 99 EMPLOYEES	13	1	1	1	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100 TO 249 EMPLOYEES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
AMHERST COUNTY	32	1	1	1	2	19	1	1	1	1	1	1	1	2	1	1	2	1	1	1	2
1 TO 19 EMPLOYEES	25	1	1	1	1	18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20 TO 99 EMPLOYEES	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100 TO 249 EMPLOYEES	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
APPOMATTOX COUNTY	29	1	1	1	5	20	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1
1 TO 19 EMPLOYEES	21	1	1	1	1	18	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1
20 TO 99 EMPLOYEES	4	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100 TO 249 EMPLOYEES	3	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ARLINGTON COUNTY	110	1	1	1	2	1	2	1	70	2	1	1	1	1	1	6	2	1	1	1	14
1 TO 19 EMPLOYEES	88	1	1	1	2	1	2	1	58	2	1	1	1	1	1	3	2	1	1	1	2
20 TO 99 EMPLOYEES	22	1	1	1	1	1	1	1	12	1	1	1	1	1	1	3	1	1	1	1	6
AUGUSTA COUNTY	58	6	1	3	2	13	1	1	4	1	1	3	1	4	1	3	12	2	1	1	1
1 TO 19 EMPLOYEES	45	5	1	1	1	12	1	1	4	1	1	2	1	4	1	2	11	1	1	1	1
20 TO 99 EMPLOYEES	6	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1
100 TO 249 EMPLOYEES	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BATH COUNTY	8	1	1	1	1	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1 TO 19 EMPLOYEES	6	1	1	1	1	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20 TO 99 EMPLOYEES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100 TO 249 EMPLOYEES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BEDFORD COUNTY	25	4	1	1	2	15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1 TO 19 EMPLOYEES	21	3	1	1	1	15	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20 TO 99 EMPLOYEES	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100 TO 249 EMPLOYEES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BLAND COUNTY	8	1	1	1	2	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1 TO 19 EMPLOYEES	5	1	1	1	1	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20 TO 99 EMPLOYEES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
100 TO 249 EMPLOYEES	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
250 EMPLOYEES AND OVER	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
BOTETOURT COUNTY	18	1	-	-	2	3	-	-	1	1	-	2	-	2	-	2	3	-	-	-	-	1
1 TO 19 EMPLOYEES	13	1	-	-	3	3	-	-	1	1	-	1	-	2	-	2	1	2	-	-	-	1
20 TO 99 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	1	-	-	-	-	-
BRUNSWICK COUNTY	62	-	-	-	2	51	1	1	1	-	-	-	1	2	-	-	3	-	1	-	-	-
1 TO 19 EMPLOYEES	49	-	-	-	-	42	1	1	1	-	-	-	-	1	-	-	3	-	1	-	-	-
20 TO 99 EMPLOYEES	8	-	-	-	-	7	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BUCHANAN COUNTY	25	-	-	-	-	7	-	-	1	-	-	-	-	4	1	-	10	-	1	-	1	-
1 TO 19 EMPLOYEES	19	-	-	-	-	6	-	-	1	-	-	-	-	4	-	-	7	-	-	-	1	-
20 TO 99 EMPLOYEES	5	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	3	-	1	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
BUCKINGHAM COUNTY	57	1	-	-	3	49	-	-	-	-	-	-	1	3	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	51	1	-	-	2	47	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	1	2	-	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAMPBELL COUNTY	69	3	-	2	7	35	3	1	4	1	-	-	-	5	-	2	3	1	1	-	-	1
1 TO 19 EMPLOYEES	51	2	-	1	3	32	2	1	3	-	-	-	-	5	-	2	3	-	-	-	-	-
20 TO 99 EMPLOYEES	8	1	-	1	3	2	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	2	1	1	-	-	-	1	-	-	-	-	-	-	-	1	1	-	-	1
250 EMPLOYEES AND OVER	6	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CAROLINE COUNTY	29	1	-	-	-	20	-	-	2	-	-	-	-	2	1	2	1	-	-	-	-	-
1 TO 19 EMPLOYEES	19	1	-	-	-	14	-	-	1	-	-	-	-	2	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	9	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CARROLL COUNTY	25	-	-	3	3	12	-	-	3	-	1	-	-	1	-	-	1	1	-	-	-	-
1 TO 19 EMPLOYEES	16	-	-	2	1	11	-	-	3	-	1	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	2	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHARLES CITY COUNTY	5	-	-	-	-	4	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHARLOTTE COUNTY	56	-	-	3	1	48	-	-	2	-	-	-	-	1	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	49	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHESTERFIELD COUNTY	91	2	1	-	-	17	4	3	14	4	2	3	1	4	4	5	10	1	2	1	4	9
1 TO 19 EMPLOYEES	56	-	-	-	-	16	1	1	12	3	3	2	1	1	1	2	6	1	2	1	3	4
20 TO 99 EMPLOYEES	19	-	-	-	-	1	-	-	1	-	-	2	-	3	1	1	2	-	-	-	2	2
100 TO 249 EMPLOYEES	9	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1	2	-	-	-	-	-
250 EMPLOYEES AND OVER	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
CLARKE COUNTY	9	1	-	-	-	4	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	-	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CRAIG COUNTY	4	-	-	-	-	1	1	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CULPEPER COUNTY	36	5	-	-	2	11	2	-	5	1	1	-	-	2	2	1	2	-	2	-	-	1
1 TO 19 EMPLOYEES	24	3	-	-	-	10	1	-	4	1	-	-	-	2	1	1	2	-	1	-	-	1
20 TO 99 EMPLOYEES	8	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CUMBERLAND COUNTY	12	-	-	-	-	10	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major group descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastic products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instrumental and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All establishments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
DICKENSON COUNTY	7	-	-	-	1	2	-	-	1	-	-	-	-	2	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DINWIDDIE COUNTY	16	-	-	-	1	12	1	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-
1 TO 19 EMPLOYEES	12	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ESSEX COUNTY	27	1	-	1	-	15	-	-	4	-	-	1	-	1	-	1	1	1	1	-	-	-
1 TO 19 EMPLOYEES	21	-	-	-	-	11	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
FAIRFAX COUNTY	261	8	-	-	3	5	8	1	86	2	1	2	-	12	3	25	15	45	3	18	16	4
1 TO 19 EMPLOYEES	192	3	-	-	3	4	6	1	72	2	1	1	-	7	3	18	12	33	3	8	14	1
20 TO 99 EMPLOYEES	50	-	-	-	-	1	2	-	11	-	-	-	-	-	-	7	2	8	-	7	2	3
100 TO 249 EMPLOYEES	13	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	3	-	1	-	-
FAUQUIER COUNTY	32	3	-	-	-	7	-	1	5	2	1	-	-	4	1	4	2	-	-	2	-	-
1 TO 19 EMPLOYEES	25	3	-	-	-	7	-	-	4	2	1	-	-	3	-	2	1	-	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLOYD COUNTY	22	2	-	-	4	14	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	17	2	-	-	13	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLUVANNA COUNTY	24	-	-	1	-	19	-	-	-	-	-	-	-	-	-	2	1	1	-	-	-	-
1 TO 19 EMPLOYEES	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRANKLIN COUNTY	57	1	-	3	5	32	2	-	3	2	-	-	-	5	-	3	-	-	-	-	1	-
1 TO 19 EMPLOYEES	34	1	-	-	22	1	-	-	2	1	-	-	-	4	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	14	-	-	1	3	6	-	-	1	1	-	-	-	1	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	5	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	1	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FREDERICK COUNTY	13	1	-	-	-	2	-	-	1	-	-	1	-	3	-	1	3	1	-	-	-	-
1 TO 19 EMPLOYEES	7	1	-	-	-	2	-	-	1	-	-	-	-	2	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GILES COUNTY	19	-	-	-	3	3	-	-	1	1	-	-	-	3	-	2	6	-	-	-	-	-
1 TO 19 EMPLOYEES	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GLOUCESTER COUNTY	32	9	-	-	4	9	-	-	1	-	-	2	-	1	-	-	1	-	5	-	-	-
1 TO 19 EMPLOYEES	26	7	-	-	3	8	-	-	1	-	-	-	-	-	-	-	-	-	4	-	-	-
20 TO 99 EMPLOYEES	6	2	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	16	-	-	-	1	13	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GOOCHLAND COUNTY	15	-	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	1	1	-	-	-
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRAYSON COUNTY	14	1	-	3	3	4	-	-	-	-	-	-	-	1	-	-	-	-	-	-	2	-
1 TO 19 EMPLOYEES	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES	3	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GREENE COUNTY	3	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GREENSVILLE COUNTY	4	-	-	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																			39	CAO's
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38		
HALIFAX COUNTY	25	-	-	1	1	19	1	-	-	1	-	-	1	-	-	-	-	1	-	-	-	-
1 TO 19 EMPLOYEES	18	-	-	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	1	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-
HANOVER COUNTY	81	3	-	-	3	33	2	3	5	3	-	3	-	6	1	6	7	2	1	1	1	1
1 TO 19 EMPLOYEES	50	3	-	-	2	24	2	2	3	2	-	3	-	3	1	3	6	2	1	1	1	1
20 TO 99 EMPLOYEES	19	-	-	-	-	8	-	1	2	1	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HENRICO COUNTY	143	8	-	-	1	17	5	8	29	5	1	4	-	7	-	15	18	5	-	3	5	12
1 TO 19 EMPLOYEES	93	4	-	-	-	12	3	1	22	5	1	2	-	2	-	9	13	3	-	2	4	3
20 TO 99 EMPLOYEES	43	2	-	-	1	5	2	5	6	-	-	2	-	4	-	6	4	-	-	1	1	1
100 TO 249 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	8	2	-	-	-	-	-	2	1	-	-	-	-	-	-	-	-	2	-	-	-	1
HENRY COUNTY	55	1	-	3	1	18	15	2	3	-	1	-	-	1	-	-	5	1	1	1	-	2
1 TO 19 EMPLOYEES	29	1	-	-	-	17	3	1	2	-	-	-	-	-	-	-	4	1	-	-	-	-
20 TO 99 EMPLOYEES	10	-	-	-	-	1	1	1	1	-	-	-	-	1	-	-	1	-	-	-	-	1
100 TO 249 EMPLOYEES	4	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	15	-	-	3	1	-	8	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1
HIGHLAND COUNTY	5	-	-	-	-	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ISLE OF WIGHT COUNTY	20	6	-	-	-	6	-	-	2	-	-	-	-	-	-	-	3	-	1	-	-	2
1 TO 19 EMPLOYEES	12	2	-	-	-	4	-	-	2	-	-	-	-	-	-	-	2	-	1	-	-	1
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JAMES CITY COUNTY	9	1	-	1	-	3	-	-	-	-	-	-	-	2	-	1	-	-	-	-	1	-
1 TO 19 EMPLOYEES	5	1	-	-	-	1	-	-	-	-	-	-	-	2	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
100 TO 249 EMPLOYEES	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KING AND QUEEN COUNTY	24	-	-	-	-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KING GEORGE COUNTY	11	2	-	-	-	7	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KING WILLIAM COUNTY	25	-	-	-	-	19	-	1	1	-	-	-	-	1	-	1	1	-	1	-	-	-
1 TO 19 EMPLOYEES	21	-	-	-	-	17	-	-	1	-	-	-	-	1	-	1	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LANCASTER COUNTY	41	25	-	1	2	4	-	-	2	-	-	-	-	1	-	1	-	-	3	1	-	1
1 TO 19 EMPLOYEES	28	16	-	1	2	4	-	-	2	-	-	-	-	1	-	1	-	-	2	1	-	-
20 TO 99 EMPLOYEES	13	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
LEE COUNTY	15	1	-	-	5	4	1	-	1	-	-	-	-	-	-	-	1	1	1	-	-	-
1 TO 19 EMPLOYEES	9	1	-	-	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LOUDOUN COUNTY	37	4	-	-	1	6	-	-	5	1	-	2	-	5	-	3	2	4	2	-	1	1
1 TO 19 EMPLOYEES	26	3	-	-	1	5	-	-	2	1	-	-	-	4	-	1	1	4	1	-	-	-
20 TO 99 EMPLOYEES	10	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LOUISA COUNTY	45	-	-	1	3	35	1	-	2	-	-	-	-	1	-	-	1	-	-	-	1	-
1 TO 19 EMPLOYEES	35	-	-	1	-	29	1	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	7	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--cocoa manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All establishments	Establishments in major industry groups																	
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
LUNENBURG COUNTY	36	-	2	-	2	22	1	-	-	2	-	2	1	-	-	-	1	-	1
1 TO 19 EMPLOYEES	23	-	-	-	-	19	-	-	-	1	-	1	-	-	-	-	1	-	2
20 TO 99 EMPLOYEES	5	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	1	-	1	1	-	-	-	-	-	1	1	-	-	-	-	-	1
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MADISON COUNTY	15	2	-	-	2	9	1	-	1	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	12	2	-	-	1	8	-	-	1	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MATHEWS COUNTY	10	3	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	1	2
1 TO 19 EMPLOYEES	8	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2
20 TO 99 EMPLOYEES	2	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MECKLENBURG COUNTY	57	2	-	3	8	29	1	1	5	-	-	-	1	2	-	2	1	-	-
1 TO 19 EMPLOYEES	34	-	-	-	2	22	-	-	4	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	8	1	-	-	1	3	1	-	1	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	8	-	-	1	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	7	1	-	2	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-
MIDDLESEX COUNTY	26	5	-	-	1	11	-	-	1	-	-	-	-	-	-	-	-	8	-
1 TO 19 EMPLOYEES	19	4	-	-	-	10	-	-	1	-	-	-	-	-	-	-	-	6	-
20 TO 99 EMPLOYEES	7	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2	-
MONTGOMERY COUNTY	38	2	-	-	5	2	4	-	6	1	1	-	-	5	-	2	5	3	1
1 TO 19 EMPLOYEES	22	-	-	-	2	2	-	-	6	1	1	-	-	3	-	2	4	-	-
20 TO 99 EMPLOYEES	5	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	1	-	-
100 TO 249 EMPLOYEES	6	1	-	-	-	2	-	-	-	-	-	-	-	1	-	-	1	-	-
250 EMPLOYEES AND OVER	5	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	2	1
NELSON COUNTY	32	-	-	1	1	24	-	-	1	-	-	-	-	1	1	-	2	-	-
1 TO 19 EMPLOYEES	29	-	-	1	-	23	-	-	1	-	-	-	-	1	-	-	-	-	1
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW KENT COUNTY	24	1	-	-	-	22	1	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	22	1	-	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTHAMPTON COUNTY	20	11	-	-	1	3	-	-	1	1	-	1	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	11	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	1	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTHUMBERLAND COUNTY	36	21	-	1	-	4	-	-	1	-	-	-	-	1	-	-	3	4	-
1 TO 19 EMPLOYEES	30	16	-	1	-	3	-	-	1	-	-	-	-	1	-	-	3	4	-
20 TO 99 EMPLOYEES	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NOTTOWAY COUNTY	32	2	-	2	4	15	-	-	2	-	-	-	1	1	-	2	1	-	-
1 TO 19 EMPLOYEES	20	-	-	-	-	10	-	-	-	-	-	-	-	-	-	1	-	-	-
20 TO 99 EMPLOYEES	7	-	-	1	1	4	-	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ORANGE COUNTY	28	1	-	3	1	11	-	-	3	-	-	-	-	3	-	3	2	1	-
1 TO 19 EMPLOYEES	16	-	-	-	-	9	-	-	1	-	-	-	-	1	-	2	1	-	-
20 TO 99 EMPLOYEES	5	-	-	1	-	1	-	-	-	-	-	-	-	2	-	1	-	-	-
100 TO 249 EMPLOYEES	5	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PAGE COUNTY	22	4	-	1	3	2	1	-	3	-	-	-	1	2	-	1	1	1	-
1 TO 19 EMPLOYEES	12	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	1	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PATRICK COUNTY	44	-	-	2	1	35	-	-	3	-	-	1	-	-	-	-	1	-	-
1 TO 19 EMPLOYEES	38	-	-	-	-	34	-	-	3	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
PITTSYLVANIA COUNTY.	55	3	3	2	4	28	-	2	2	2	1	1	1	3	1	-	1	-	-	-	-	1
1 TO 19 EMPLOYEES.	37	3	-	1	1	24	-	1	1	1	1	-	-	2	-	-	1	-	-	-	-	1
20 TO 99 EMPLOYEES.	4	-	-	-	-	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	7	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	7	-	3	1	-	1	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
POWHATAN COUNTY.	12	-	-	-	-	11	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	8	-	-	-	-	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	4	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PRINCE EDWARD COUNTY.	27	-	-	-	1	17	-	-	1	1	-	-	1	1	-	1	1	1	-	-	1	1
1 TO 19 EMPLOYEES.	19	-	-	-	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	4	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PRINCE GEORGE COUNTY.	11	1	-	-	-	7	-	-	-	1	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES.	7	1	-	-	-	4	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES.	4	-	-	-	-	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
PRINCE WILLIAM COUNTY.	38	-	-	1	-	3	-	-	13	-	-	2	-	4	-	5	7	-	1	-	2	-
1 TO 19 EMPLOYEES.	29	-	-	1	-	3	-	-	11	-	-	2	-	2	-	2	6	-	-	-	2	-
20 TO 99 EMPLOYEES.	7	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PULASKI COUNTY.	43	3	-	5	2	8	3	1	3	1	-	-	-	5	-	2	5	-	1	-	3	-
1 TO 19 EMPLOYEES.	19	2	-	-	-	6	-	1	2	-	-	-	-	4	-	-	3	-	-	-	1	-
20 TO 99 EMPLOYEES.	12	1	-	2	-	2	-	-	1	-	-	-	-	1	-	2	-	-	-	-	1	-
100 TO 249 EMPLOYEES.	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER.	9	-	-	3	1	-	3	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
RAPPAHANNOCK COUNTY.	4	-	-	-	1	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RICHMOND COUNTY.	20	3	-	-	1	13	-	-	1	-	-	-	-	1	1	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	14	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	5	2	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROANOKE COUNTY.	51	4	-	1	1	6	2	1	2	2	-	2	-	7	-	7	6	5	2	1	2	-
1 TO 19 EMPLOYEES.	28	1	-	1	1	5	2	-	1	2	-	-	-	3	-	3	3	2	1	1	-	-
20 TO 99 EMPLOYEES.	17	3	-	-	-	1	-	-	1	-	-	2	-	4	-	1	2	1	1	-	-	-
100 TO 249 EMPLOYEES.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	4	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
ROCKBRIDGE COUNTY.	19	-	-	3	1	13	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES.	15	-	-	-	1	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	3	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROCKINGHAM COUNTY.	69	18	-	1	3	12	3	1	9	3	-	1	1	6	-	2	3	2	1	-	1	2
1 TO 19 EMPLOYEES.	44	9	-	-	-	10	1	-	8	2	-	-	-	6	-	2	1	1	-	-	1	1
20 TO 99 EMPLOYEES.	13	4	-	-	-	2	-	-	1	-	-	-	-	-	-	-	2	1	-	-	-	-
100 TO 249 EMPLOYEES.	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	8	4	-	-	2	-	1	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-
RUSSELL COUNTY.	16	-	-	-	4	6	-	-	1	-	-	-	-	2	-	-	3	-	-	-	-	-
1 TO 19 EMPLOYEES.	10	-	-	-	-	5	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCOTT COUNTY.	19	1	-	-	3	6	-	1	2	1	-	-	-	1	-	2	-	-	2	-	-	-
1 TO 19 EMPLOYEES.	11	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	7	1	-	-	3	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHENANDOAH COUNTY.	46	9	-	1	8	9	-	-	6	1	-	-	-	7	1	-	2	-	2	-	-	-
1 TO 19 EMPLOYEES.	23	4	-	-	1	7	-	-	4	1	-	-	-	5	-	-	-	-	1	-	-	-
20 TO 99 EMPLOYEES.	9	2	-	-	3	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	12	2	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal products; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
SMYTH COUNTY	42	7	-	2	5	6	3	-	4	-	1	1	-	4	1	2	4	-	-	-	2	-
1 TO 19 EMPLOYEES	25	6	-	1	1	3	-	-	4	-	-	-	-	3	1	1	2	-	-	-	-	-
20 TO 99 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	1	2	1	-	-	-	-	-	-	-	1	-	1	-	-	-	-	1	-
250 EMPLOYEES AND OVER	9	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SOUTHAMPTON COUNTY	23	9	-	1	-	9	-	1	-	1	-	-	-	-	-	1	-	-	-	-	1	-
1 TO 19 EMPLOYEES	16	6	-	-	8	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SPOTSVANVIA COUNTY	20	1	-	-	-	14	-	-	-	-	1	-	-	2	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	13	-	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	15	1	-	-	-	1	-	-	-	-	-	-	-	2	-	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STAFFORD COUNTY	14	-	-	-	1	9	-	-	-	-	-	-	-	3	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	11	-	-	-	1	7	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SURRY COUNTY	3	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUSSEX COUNTY	23	-	-	-	-	18	-	1	-	2	-	-	-	1	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	17	-	-	-	-	14	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TAZEWELL COUNTY	57	4	-	-	1	3	2	-	5	1	-	-	-	8	2	2	17	6	3	1	1	1
1 TO 19 EMPLOYEES	35	2	-	-	-	2	1	-	4	1	-	-	-	5	2	1	12	4	2	1	1	1
20 TO 99 EMPLOYEES	16	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	3	1	1	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WARREN COUNTY	18	4	-	-	2	4	1	-	1	2	-	1	-	1	-	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	11	3	-	-	-	4	-	-	1	1	-	1	-	-	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	3	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WASHINGTON COUNTY	41	2	-	2	2	11	1	-	6	1	-	-	-	3	1	5	6	1	-	-	-	-
1 TO 19 EMPLOYEES	26	2	-	1	1	10	1	-	5	1	-	-	-	2	-	2	3	-	-	-	-	-
20 TO 99 EMPLOYEES	7	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	1	-	-	-	1	-	-	-	-	1	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
WESTMORELAND COUNTY	38	28	-	-	-	6	-	-	-	-	-	-	-	1	-	1	-	-	2	-	-	-
1 TO 19 EMPLOYEES	26	19	-	-	-	4	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-
20 TO 99 EMPLOYEES	11	9	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WISE COUNTY	29	3	-	-	4	6	-	-	7	-	-	-	-	2	-	-	5	-	-	1	-	1
1 TO 19 EMPLOYEES	21	2	-	-	-	5	-	-	-	-	-	-	-	-	-	-	4	-	-	1	-	-
20 TO 99 EMPLOYEES	5	1	-	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WYTHE COUNTY	34	1	-	1	6	5	-	1	2	-	-	2	-	5	-	1	8	2	-	-	-	-
1 TO 19 EMPLOYEES	19	1	-	-	2	5	-	1	1	-	-	-	-	5	-	-	3	1	-	-	-	-
20 TO 99 EMPLOYEES	8	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-	5	-	-	-	-	-
100 TO 249 EMPLOYEES	5	-	-	1	1	-	-	-	-	-	-	2	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YORK COUNTY	15	4	-	-	3	3	-	-	-	-	1	-	-	2	-	1	1	-	1	-	-	2
1 TO 19 EMPLOYEES	10	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
INDEPENDENT CITIES																							
ALEXANDRIA	97	5	-	-	1	-	5	1	35	2	-	3	1	1	1	11	7	7	2	6	5	4	4
1 TO 19 EMPLOYEES	72	1	-	-	1	-	4	1	27	2	-	2	-	1	1	10	5	6	1	4	4	3	3
20 TO 99 EMPLOYEES	20	1	-	-	-	-	-	-	7	-	-	1	1	-	-	1	2	1	-	1	1	1	1
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BEDFORD	31	3	-	2	1	9	1	1	5	-	-	2	-	2	-	1	1	-	-	-	-	-	3
1 TO 19 EMPLOYEES	19	2	-	1	-	8	-	1	3	-	-	-	-	1	-	1	-	-	-	-	-	-	2
20 TO 99 EMPLOYEES	7	1	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
BRISTOL	59	12	-	2	5	7	-	1	9	3	1	1	-	4	1	3	5	2	2	-	1	-	-
1 TO 19 EMPLOYEES	27	5	-	1	-	3	-	1	5	3	1	-	-	2	1	-	3	-	-	-	1	-	-
20 TO 99 EMPLOYEES	15	2	-	1	2	-	-	-	3	-	-	-	-	2	-	-	2	-	-	-	-	-	-
100 TO 249 EMPLOYEES	9	2	-	1	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	8	2	-	1	2	-	-	-	1	-	-	-	-	1	2	1	-	-	1	-	-	-	1
BUENA VISTA	15	-	-	1	1	2	-	2	1	-	-	2	-	1	1	1	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
CHARLOTTESVILLE	68	3	-	1	2	7	-	1	18	3	1	-	-	5	-	3	3	11	-	4	4	4	2
1 TO 19 EMPLOYEES	48	1	-	-	1	4	-	1	16	3	1	-	-	2	-	2	3	8	-	4	3	1	1
20 TO 99 EMPLOYEES	12	2	-	-	-	-	-	-	1	-	-	-	-	3	-	1	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHESAPEAKE	61	3	-	-	3	7	2	3	4	7	1	1	-	8	1	6	6	-	-	-	-	-	1
1 TO 19 EMPLOYEES	33	2	-	-	2	5	2	2	4	4	1	-	-	4	-	3	4	8	-	-	-	-	-
20 TO 99 EMPLOYEES	19	2	-	-	1	1	-	-	-	1	-	-	-	2	-	2	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-
CLIFTON FORGE	8	1	-	-	-	1	-	-	2	-	-	-	-	1	-	-	-	-	-	2	-	-	-
1 TO 19 EMPLOYEES	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COLONIAL HEIGHTS	10	1	-	-	-	2	-	-	2	1	-	-	1	-	-	2	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COVINGTON	20	-	-	-	1	7	-	1	3	3	-	-	-	2	-	-	2	-	-	-	-	-	1
1 TO 19 EMPLOYEES	14	-	-	-	-	-	-	-	2	1	-	-	-	2	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DANVILLE	69	6	-	3	3	17	2	-	9	2	-	-	-	3	-	3	8	1	1	-	4	4	7
1 TO 19 EMPLOYEES	43	3	-	1	1	12	1	-	6	2	-	-	-	2	-	-	5	-	-	-	-	-	-
20 TO 99 EMPLOYEES	15	3	-	-	-	5	-	-	2	-	-	-	-	1	-	-	2	-	-	-	-	-	-
100 TO 249 EMPLOYEES	7	1	-	2	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EMPORIA	39	3	-	4	2	25	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	23	1	-	-	-	20	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	1	-	1	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FAIRFAX	28	-	-	-	1	-	1	1	16	-	-	-	-	1	-	1	2	1	-	2	1	1	1
1 TO 19 EMPLOYEES	23	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FALLS	26	-	-	-	2	-	2	-	12	-	-	-	-	-	-	2	2	1	-	3	2	-	-
1 TO 19 EMPLOYEES	22	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																							
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO ²			
INDEPENDENT CITIES--CON.																									
FRANKLIN	15	1	-	-	1	6	-	1	1	3	-	1	-	1	-	-	-	-	-	-	-	-	-		
1 TO 19 EMPLOYEES	6	-	-	-	1	5	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-		
20 TO 99 EMPLOYEES	7	1	-	-	1	-	-	1	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-		
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
FREDERICKSBURG	38	1	-	-	4	7	1	8	-	-	1	-	-	6	1	1	2	1	1	2	1	1	1		
1 TO 19 EMPLOYEES	23	1	-	-	1	5	-	4	-	-	-	-	-	5	-	1	2	1	2	-	-	-	-		
20 TO 99 EMPLOYEES	11	-	-	-	3	2	1	3	-	1	-	-	-	1	1	-	-	-	-	-	1	1	1		
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
GALAX	45	1	-	3	1	19	9	2	2	-	-	-	-	3	-	-	4	-	1	-	-	2	2		
1 TO 19 EMPLOYEES	29	1	-	-	-	18	3	1	1	-	-	-	-	1	-	-	4	-	-	-	-	-	-		
20 TO 99 EMPLOYEES	5	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
100 TO 249 EMPLOYEES	4	-	-	3	1	1	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-		
250 EMPLOYEES AND OVER	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
HAMPTON	70	11	-	1	5	4	-	-	8	2	1	-	-	3	1	4	13	6	3	3	2	3	3		
1 TO 19 EMPLOYEES	46	5	-	5	3	1	-	-	6	1	1	-	-	1	-	3	9	4	3	2	1	1	1		
20 TO 99 EMPLOYEES	19	6	-	1	1	3	-	-	1	1	-	-	-	2	-	1	4	-	2	2	1	1	1		
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
HARRISONBURG	45	9	-	-	3	3	2	-	6	3	-	1	-	4	1	5	6	-	1	1	-	-	-		
1 TO 19 EMPLOYEES	22	3	-	-	1	3	1	-	2	2	-	-	-	2	-	2	4	-	-	-	-	-	-		
20 TO 99 EMPLOYEES	13	5	-	-	-	-	1	-	4	3	-	-	-	-	-	1	-	-	-	-	-	-	-		
100 TO 249 EMPLOYEES	3	1	-	-	-	-	-	-	-	-	-	1	-	-	-	2	1	-	-	-	-	-	-		
250 EMPLOYEES AND OVER	7	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
HOPEWELL	20	-	1	-	-	3	-	2	3	7	-	-	-	1	-	-	2	-	-	-	-	1	1		
1 TO 19 EMPLOYEES	12	-	-	-	-	3	-	1	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-		
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-		
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LEXINGTON	9	-	-	-	-	2	1	1	1	-	-	-	-	1	-	-	1	-	-	-	2	1	1		
1 TO 19 EMPLOYEES	7	-	-	-	-	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-		
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
LYNCHBURG	135	17	1	1	9	14	2	4	18	7	-	2	5	7	4	9	16	7	2	-	-	8	3		
1 TO 19 EMPLOYEES	65	7	1	1	1	11	1	1	13	4	-	1	1	4	-	4	9	3	1	-	2	3	3		
20 TO 99 EMPLOYEES	35	7	-	-	5	2	1	2	3	-	-	1	2	2	-	3	4	1	1	-	-	1	1		
100 TO 249 EMPLOYEES	15	2	-	-	3	1	1	-	1	-	-	-	1	1	-	1	4	1	1	-	-	1	2		
250 EMPLOYEES AND OVER	20	1	-	-	1	-	-	-	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-		
MANASSAS	17	1	-	-	-	2	-	-	7	-	-	-	-	1	-	1	-	4	-	1	-	-	-		
1 TO 19 EMPLOYEES	11	-	-	-	-	2	-	-	6	-	-	-	-	-	-	1	-	2	-	-	-	-	-		
20 TO 99 EMPLOYEES	5	1	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1	-	-	-	-	-		
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MANASSAS PARK	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-		
1 TO 19 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MARTINSVILLE	66	3	-	2	3	14	8	6	7	2	-	-	-	5	-	6	4	-	1	1	1	3	3		
1 TO 19 EMPLOYEES	36	2	-	-	1	6	4	4	6	-	-	-	-	3	-	3	2	-	-	-	-	-	-		
20 TO 99 EMPLOYEES	14	1	-	-	-	3	1	1	1	1	-	-	-	1	-	3	2	-	-	-	-	-	-		
100 TO 249 EMPLOYEES	5	-	-	-	2	2	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
250 EMPLOYEES AND OVER	11	-	-	-	-	3	3	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-		
NEWPORT NEWS	78	10	-	1	3	6	3	3	1	12	1	3	-	8	3	6	5	4	5	2	3	1	1		
1 TO 19 EMPLOYEES	46	-	-	-	1	3	3	-	10	1	1	2	-	5	3	4	3	4	2	1	2	1	1		
20 TO 99 EMPLOYEES	20	7	-	-	1	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
100 TO 249 EMPLOYEES	7	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
NORFOLK	245	37	1	3	8	11	7	1	58	10	1	6	-	14	7	24	19	3	16	2	10	7	7		
1 TO 19 EMPLOYEES	155	13	-	1	5	6	4	1	51	10	1	2	-	10	2	16	13	2	9	2	8	3	3		
20 TO 99 EMPLOYEES	68	19	1	1	3	4	4	1	6	2	-	2	-	2	1	7	5	1	4	2	2	2	2		
100 TO 249 EMPLOYEES	14	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
250 EMPLOYEES AND OVER	8	2	-	-	-	1	-	-	1	-	-	1	-	-	-	1	-	-	-	-	-	-	-		

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20---food and kindred products; 21---tobacco manufactures; 22---textile mill products; 23---apparel and other textile products; 24---lumber and wood products; 25---furniture and fixtures; 26---paper and allied products; 27---printing and publishing; 28---chemicals and allied products; 29---petroleum and coal products; 30---rubber and miscellaneous plastic products; 31---leather and leather products; 32---stone, clay, and glass products; 33---primary metal industries; 34---fabricated metal products; 35---machinery, except electrical; 36---electric and electronic equipment; 37---transportation equipment; 38---instruments and related products; 39---miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class ^a	All es- tablish- ments	Establishments in major industry groups																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
INDEPENDENT CITIES--CON.																							
NORTON	6	2	-	-	1	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	2	-	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PETERSBURG	51	7	2	-	11	1	1	-	5	1	-	1	2	6	-	3	2	1	3	-	2	1	1
1 TO 19 EMPLOYEES	27	3	-	-	9	1	-	-	4	-	-	1	1	4	-	3	1	1	2	-	1	1	1
20 TO 99 EMPLOYEES	19	4	1	-	2	-	-	-	1	1	-	-	-	2	-	3	-	1	1	-	1	1	1
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-
POQUOSON	5	1	-	-	-	-	1	1	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-
1 TO 19 EMPLOYEES	5	1	-	-	-	-	1	1	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-
PORTSMOUTH	65	13	-	-	4	1	1	-	9	6	-	2	-	4	1	4	6	1	6	-	-	2	2
1 TO 19 EMPLOYEES	42	9	-	-	3	1	1	-	9	2	-	2	-	4	1	4	4	1	5	-	-	1	1
20 TO 99 EMPLOYEES	19	9	-	-	1	2	-	-	2	1	-	-	-	4	1	4	2	1	1	-	-	1	1
100 TO 249 EMPLOYEES	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RADFORD	21	1	-	2	3	-	-	2	3	1	-	2	-	2	1	-	2	2	-	-	-	-	-
1 TO 19 EMPLOYEES	10	-	-	-	-	-	-	-	3	-	-	-	-	15	6	32	37	8	6	7	14	17	
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	1	3	-	-	1	-	8	2	20	25	6	3	4	10	7	
100 TO 249 EMPLOYEES	4	1	-	-	-	-	-	-	-	-	-	1	-	5	2	9	10	2	2	3	4	6	
250 EMPLOYEES AND OVER	5	-	-	2	-	-	-	-	-	-	-	-	-	2	1	1	1	1	1	-	-	-	-
RICHMOND	403	32	7	3	22	12	23	26	100	20	-	10	6	15	6	32	37	8	6	7	14	17	
1 TO 19 EMPLOYEES	230	13	1	1	8	10	15	4	76	10	-	6	3	8	2	20	25	6	3	4	10	7	
20 TO 99 EMPLOYEES	114	12	1	2	6	2	6	9	19	7	-	2	3	5	2	9	10	2	2	3	4	6	
100 TO 249 EMPLOYEES	36	4	3	-	1	3	1	10	3	-	-	-	-	2	1	1	1	-	1	-	-	-	
250 EMPLOYEES AND OVER	23	3	2	-	-	-	1	3	2	3	-	2	-	-	1	2	1	-	-	-	-	-	
ROANOKE	127	16	-	2	12	5	5	5	19	5	2	2	-	8	6	9	9	3	2	6	7	4	
1 TO 19 EMPLOYEES	70	6	-	-	3	2	2	2	14	2	-	1	-	3	3	6	6	1	1	6	7	2	
20 TO 99 EMPLOYEES	33	4	-	-	5	2	1	2	3	2	-	1	-	4	1	1	3	2	1	1	1	1	
100 TO 249 EMPLOYEES	15	6	-	2	-	-	1	1	1	1	-	-	-	1	1	1	1	-	-	-	-	-	
250 EMPLOYEES AND OVER	9	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SALEM	51	4	-	1	2	3	4	-	6	4	-	1	-	7	2	6	8	2	-	1	-	-	
1 TO 19 EMPLOYEES	29	2	-	-	1	1	1	-	1	-	-	-	-	6	2	1	5	-	-	-	-	-	
20 TO 99 EMPLOYEES	8	-	-	-	1	2	1	-	1	-	-	-	-	1	-	2	1	-	-	-	-	-	
100 TO 249 EMPLOYEES	7	1	-	1	-	-	-	-	-	-	-	-	-	-	-	3	1	2	-	-	-	-	
250 EMPLOYEES AND OVER	7	1	-	1	-	-	1	-	-	-	-	1	-	-	-	3	1	2	-	-	-	-	
SOUTH BOSTON	19	3	-	1	1	5	1	-	3	-	-	-	-	2	-	1	-	1	1	-	-	-	
1 TO 19 EMPLOYEES	15	3	-	-	1	5	1	-	2	-	-	-	-	2	-	1	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
STAUNTON	18	2	-	-	1	2	-	-	4	-	-	-	-	2	-	1	3	1	-	-	1	1	
1 TO 19 EMPLOYEES	16	2	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SUFFOLK	75	18	-	-	1	24	-	1	5	3	-	1	-	6	-	3	7	1	-	-	1	4	
1 TO 19 EMPLOYEES	41	7	-	-	12	-	-	-	3	2	-	-	-	5	-	3	5	-	-	-	1	2	
20 TO 99 EMPLOYEES	26	7	-	-	11	-	-	-	1	1	-	-	-	1	-	-	2	-	-	-	1	1	
100 TO 249 EMPLOYEES	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VIRGINIA BEACH	85	5	-	2	8	7	4	1	17	1	1	2	-	6	-	7	6	2	4	-	10	2	
1 TO 19 EMPLOYEES	71	3	-	1	7	1	-	-	17	1	-	1	-	5	-	5	5	1	-	-	9	1	
20 TO 99 EMPLOYEES	10	4	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	-	1	1	
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	35	-	-	3	-	2	3	-	4	2	-	1	-	1	-	3	10	2	-	-	1	1	
1 TO 19 EMPLOYEES	16	-	-	-	-	-	1	-	2	1	-	-	-	1	-	2	4	1	-	-	1	1	
20 TO 99 EMPLOYEES	10	-	-	-	-	-	-	-	2	-	-	-	-	1	-	1	3	1	-	-	1	1	
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	6	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

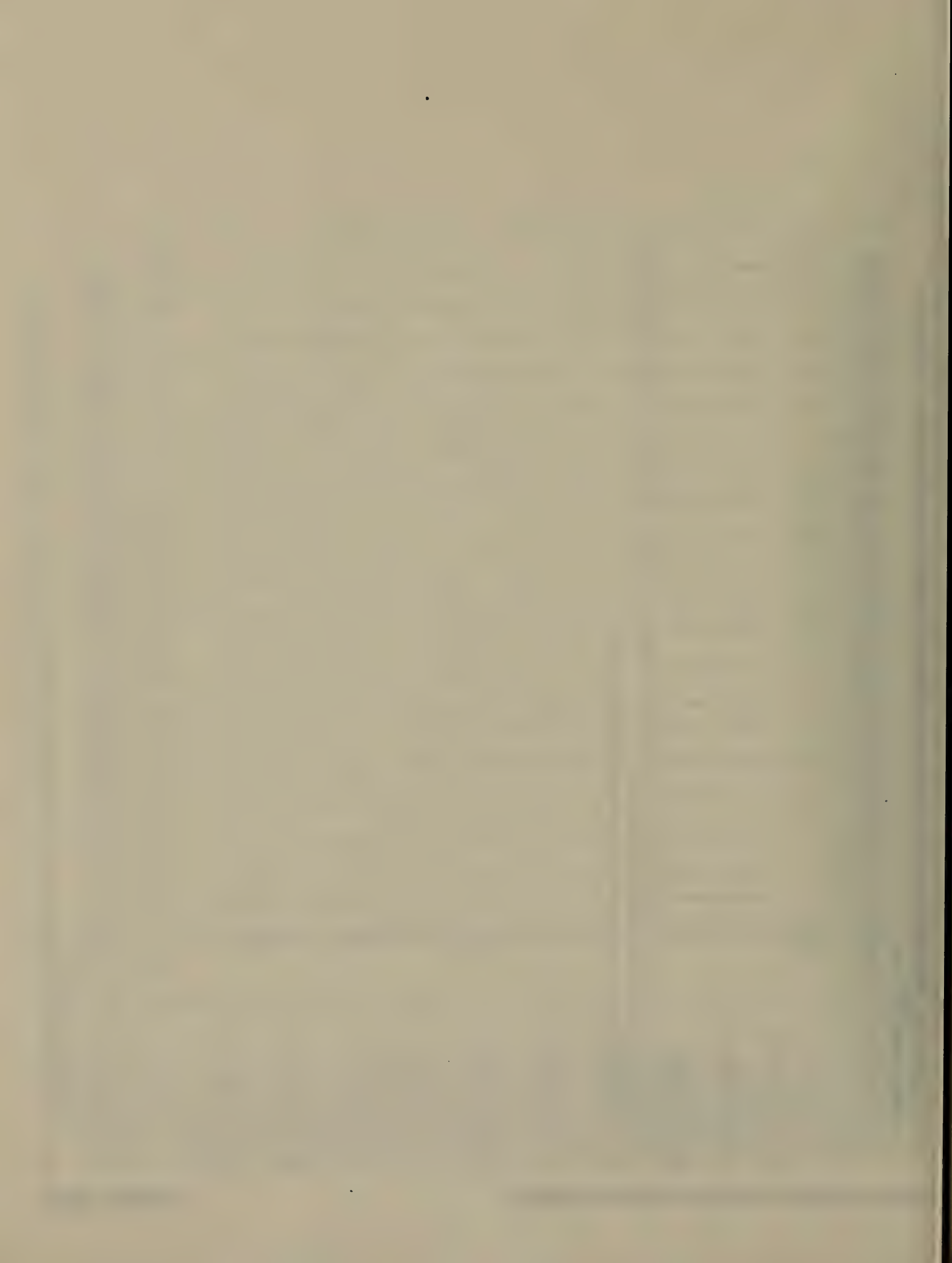
(Major groups descriptions are: 20---food and kindred products; 21---tobacco manufactures; 22---textile mill products; 23---apparel and other textile products; 24---lumber and wood products; 25---furniture and fixtures; 26---paper and allied products; 27---printing and publishing; 28---chemicals and allied products; 29---petroleum and coal products; 30---rubber and miscellaneous plastics products; 31---leather and leather products; 32---stone, clay, and glass products; 33---primary metal industries; 34---fabricated metal products; 35---machinery, except electrical; 36---electric and electronic equipment; 37---transportation equipment; 38---instruments and related products; 39---miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																		39	CAO ²
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37			38
INDEPENDENT CITIES--CON.																					
WILLIAMSBURG	9	-	-	-	-	-	1	-	4	1	-	-	1	1	-	-	-	-	-	-	1
1 TO 19 EMPLOYEES	7	-	-	-	-	-	1	-	3	-	-	-	1	1	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WINCHESTER	59	13	-	2	2	6	6	1	4	2	-	3	-	4	-	4	3	2	2	-	3
1 TO 19 EMPLOYEES	33	5	-	1	1	5	4	1	3	1	-	1	-	2	-	3	-	1	1	-	2
20 TO 99 EMPLOYEES	12	5	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	2
100 TO 249 EMPLOYEES	8	2	-	-	-	1	1	-	-	1	-	-	-	-	-	1	2	-	1	-	1
250 EMPLOYEES AND OVER	6	1	-	-	-	-	-	-	-	-	-	2	-	1	-	-	-	1	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series.

¹Represents zero.

²Only those counties and size classes that include data for manufacturing establishments are shown.



Washington

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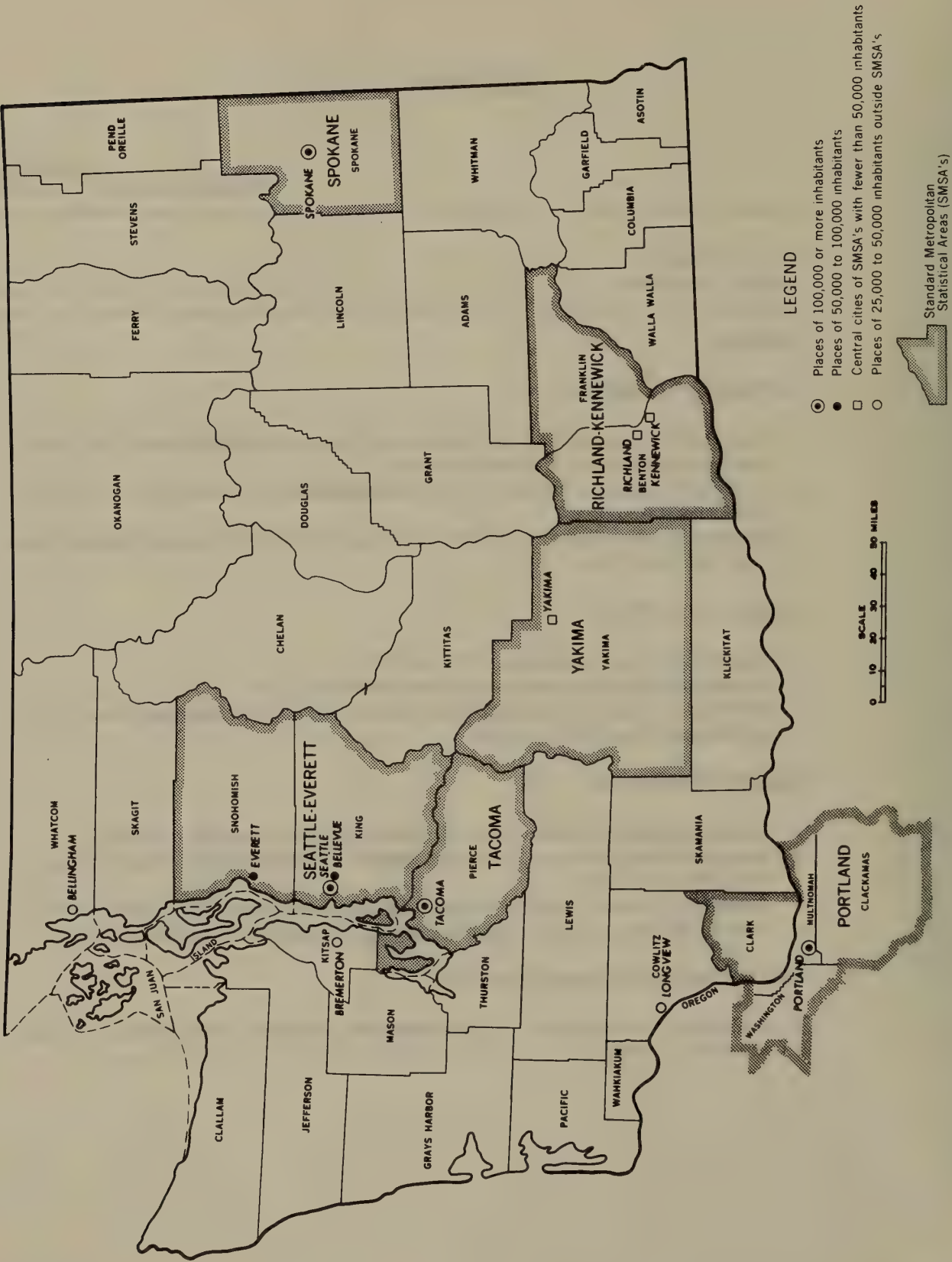
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WASHINGTON



SUMMARY OF FINDINGS

In 1977, 265.0 thousand persons were employed in Washington's manufacturing establishments. This figure represented an increase of 17 percent from the 1972 figure of 226.0 thousand workers.

The total value added by manufacture for the State amounted to \$8,955 million in 1977, an increase of approximately 90 percent from the 1972 figure of \$4,721 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were transportation equipment, lumber and wood products, food and kindred products, and paper and allied products. They accounted for approximately 61 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 63 percent of the State's employment.

The most important counties in the State ranked by employment were King, Pierce, Snohomish, and Spokane. They accounted for approximately 64 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 64 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 4 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Washington:						
1977.....	265.0	4,054.3	256.2	3,870.9	8.8	183.4
1972.....	226.0	2,308.4	219.3	2,223.7	6.7	84.7
1967.....	270.7	2,119.0	266.6	2,075.8	4.1	43.2
1963.....	224.4	1,479.1	221.3	1,454.0	3.1	25.1
STANDARD CONSOLIDATED STATISTICAL AREA						
Seattle-Tacoma:						
1977.....	153.2	2,431.4	146.0	2,278.8	7.2	152.6
1972.....	129.1	1,400.4	123.7	1,331.1	5.4	69.3
STANDARD METROPOLITAN STATISTICAL AREAS						
Portland, Oreg.-Wash.:						
1977.....	99.4	1,392.1	94.7	1,302.7	4.7	89.4
1972.....	86.4	808.9	82.4	757.8	4.0	51.1
1967.....	79.8	561.0	77.4	540.2	2.4	20.8
1963.....	65.3	392.8	63.3	377.0	1.9	15.8
Richland-Kennewick:						
1977.....	8.5	129.3	8.4	128.3	.1	1.0
1972.....	5.9	56.5	5.9	56.5	-	-
Seattle-Everett:						
1977.....	131.9	2,111.6	127.3	2,014.8	4.6	96.8
1972.....	108.6	1,195.6	105.0	1,154.9	3.6	40.7
1967.....	162.2	1,366.7	160.6	1,348.4	1.6	18.3
1963.....	121.6	855.2	120.2	842.7	1.4	12.6
Spokane:						
1977.....	16.0	226.6	15.8	223.3	.2	3.3
1972.....	12.2	115.6	12.1	114.4	.1	1.2
1967.....	12.3	89.2	12.0	86.4	.3	2.8
1963.....	11.8	76.4	(D)	(D)	(D)	(D)
Tacoma:						
1977.....	21.3	319.8	18.7	264.0	2.6	55.8
1972.....	20.4	204.8	18.6	176.2	1.8	28.6
1967.....	19.8	143.1	18.4	128.0	1.4	15.1
1963.....	16.6	98.9	(D)	(D)	(D)	(D)
Yakima:						
1977.....	8.0	101.5	7.9	99.8	.1	1.7
1972.....	6.6	56.5	6.5	55.7	.1	.8

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers							Comparative indexes and U.S. employment			
												United States			
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (million)	Wages (million dollars)	Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of ship-ments ³ (million dollars)	New capital expenditures (million dollars)	Percent of U.S. manufacturing employment (per-cent)	Index of State employment (1977=100)	Index of manufacturing employment (1977=100)	U.S. manufacturing employment (1,000)
WASHINGTON															
1977 CENSUS.	6 723	1 712	265.0	4 054.3	180.7	338.2	2 385.0	8 955.0	12 921.4	21 746.9	850.0	1.35	100	100	19 596.9
1976 ASM....	(NA)	(NA)	244.1	3 594.4	163.3	307.3	2 086.8	7 296.9	11 351.8	18 842.8	662.2	1.30	92	96	18 753.0
1975 ASM....	(NA)	(NA)	239.2	3 168.1	160.6	295.6	1 794.3	7 032.9	10 050.2	16 932.5	808.0	1.31	90	94	18 302.2
1974 ASM....	(NA)	(NA)	254.4	2 962.0	171.6	320.1	1 713.4	6 870.9	9 397.4	16 068.2	560.0	1.28	96	102	19 844.8
1973 ASM....	(NA)	(NA)	244.8	2 625.9	171.9	320.0	1 584.2	5 733.7	7 537.4	13 524.2	446.3	1.23	92	102	19 897.9
1972 CENSUS.	5 345	1 463	226.0	2 308.4	159.8	303.3	1 410.9	4 721.4	5 930.1	10 815.7	353.7	1.19	85	98	19 028.7
1971 ASM....	(NA)	(NA)	220.7	2 061.8	148.2	276.5	1 205.6	4 117.0	5 560.8	10 731.1	364.5	1.20	83	94	18 363.1
1970 ASM....	(NA)	(NA)	237.5	2 205.6	157.6	298.0	1 272.6	4 094.7	5 839.2	10 276.4	311.0	1.24	90	99	19 217.2
1969 ASM....	(NA)	(NA)	272.8	2 445.2	177.7	339.7	1 330.8	5 132.8	5 504.5	10 618.2	306.1	1.36	103	103	20 035.5
1968 ASM....	(NA)	(NA)	262.7	2 333.7	182.6	351.0	1 282.1	4 808.3	5 296.3	10 100.7	374.6	1.45	107	100	19 527.6
1967 CENSUS.	5 014	1 375	270.7	2 119.0	177.7	344.6	1 179.8	3 764.2	4 777.5	8 503.0	464.7	1.40	102	99	19 323.2
1966 ASM....	(NA)	(NA)	251.6	1 931.8	171.4	332.4	1 109.6	3 289.2	4 309.3	7 696.1	418.2	1.32	95	98	19 024.5
1965 ASM....	(NA)	(NA)	223.3	1 611.2	156.9	307.0	975.2	3 048.8	3 774.7	6 964.8	243.3	1.24	84	92	18 010.2
1964 ASM....	(NA)	(NA)	231.0	1 584.9	156.5	309.0	945.0	3 175.7	3 348.1	6 773.9	177.4	1.34	87	89	17 268.5
1963 CENSUS.	5 250	1 233	224.4	1 479.1	152.2	297.3	881.4	2 884.9	(NA)	(NA)	143.4	1.32	85	87	16 958.4
SEATTLE-TACOMA SCSA															
1977 CENSUS.	3 332	905	153.2	2 431.4	93.0	170.4	1 208.6	4 919.3	5 887.4	10 716.6	267.6	.78	100	100	19 596.9
1972 CENSUS.	2 675	775	129.1	1 400.4	81.3	153.8	725.3	2 598.1	2 907.3	5 666.3	119.6	.68	84	98	19 028.7
PORTLAND, OREG.-WASH., SMSA															
1977 CENSUS.	2 440	724	99.4	1 392.1	67.9	126.4	815.4	2 951.6	3 623.4	6 544.8	236.4	.51	100	100	19 596.9
1976 ASM....	(NA)	(NA)	93.2	1 211.4	64.4	118.0	740.1	2 548.5	3 198.8	5 724.6	173.3	.50	94	96	18 753.0
1975 ASM....	(NA)	(NA)	90.5	1 074.4	60.6	111.0	645.4	2 186.6	2 863.3	5 015.5	149.3	.49	91	94	18 302.2
1974 ASM....	(NA)	(NA)	96.0	1 035.7	68.3	126.6	645.2	2 129.2	2 780.0	4 803.3	167.0	.48	97	102	19 844.8
1973 ASM....	(NA)	(NA)	94.9	957.7	67.3	127.3	594.2	1 862.5	2 301.7	4 144.0	95.8	.48	95	102	19 897.9
1972 CENSUS.	2 009	671	86.4	808.9	62.4	117.9	512.4	1 596.9	1 896.3	3 467.1	92.9	.45	87	98	19 028.7
1971 ASM....	(NA)	(NA)	86.5	727.6	61.2	115.3	458.4	1 365.2	1 619.3	2 972.7	81.1	.47	87	94	18 363.1
1970 ASM....	(NA)	(NA)	86.8	672.3	61.2	115.8	424.4	1 318.3	1 503.2	2 791.0	95.2	.45	87	99	19 217.2
1969 ASM....	(NA)	(NA)	85.5	646.9	62.4	118.6	419.4	1 300.4	1 521.8	2 810.6	95.6	.43	86	103	20 035.5
1968 ASM....	(NA)	(NA)	82.0	596.7	60.0	115.7	392.1	1 204.1	1 420.9	2 596.9	74.5	.42	82	100	19 527.6
1967 CENSUS.	1 826	563	79.8	561.0	58.4	113.9	368.4	1 115.4	1 304.2	2 420.5	77.0	.41	80	99	19 323.2
1966 ASM....	(NA)	(NA)	76.9	525.6	56.0	110.4	348.1	1 036.9	1 277.5	2 298.9	80.0	.40	77	98	19 024.5
1965 ASM....	(NA)	(NA)	70.2	463.6	51.4	100.4	306.5	912.3	1 185.4	2 083.7	55.7	.39	71	92	18 010.2
1964 ASM....	(NA)	(NA)	67.4	425.4	49.3	96.5	279.8	829.9	1 067.9	1 890.7	46.5	.39	68	89	17 268.5
1963 CENSUS.	1 863	519	65.3	392.8	47.5	92.4	258.6	768.2	(NA)	(NA)	48.9	.39	66	87	16 958.4
SEATTLE-EVERETT SMSA															
1977 CENSUS.	2 717	733	131.9	2 111.6	78.6	143.0	1 017.8	4 161.0	4 940.0	9 015.4	213.4	.67	100	100	19 596.9
1976 ASM....	(NA)	(NA)	119.9	1 890.7	67.8	127.9	866.0	3 353.1	4 201.1	7 764.7	163.2	.64	91	96	18 753.0
1975 ASM....	(NA)	(NA)	123.4	1 769.5	70.2	130.1	801.7	3 596.0	3 709.9	7 285.2	241.0	.67	94	94	18 302.2
1974 ASM....	(NA)	(NA)	128.2	1 590.1	74.9	139.2	746.4	3 561.6	3 624.0	7 204.7	124.5	.65	97	102	19 844.8
1973 ASM....	(NA)	(NA)	121.4	1 390.3	74.2	134.5	685.2	2 729.5	3 187.0	6 221.2	127.8	.61	92	102	19 897.9
1972 CENSUS.	2 156	608	108.6	1 195.6	66.6	126.4	597.4	2 234.7	2 307.0	4 705.5	82.9	.57	82	98	19 028.7
1971 ASM....	(NA)	(NA)	109.6	1 081.9	61.2	111.1	512.9	2 061.4	2 541.6	5 169.4	72.0	.60	83	94	18 363.1
1970 ASM....	(NA)	(NA)	128.0	1 301.1	71.8	133.9	630.3	2 103.5	3 013.8	5 493.5	78.2	.67	97	99	19 217.2
1969 ASM....	(NA)	(NA)	162.1	1 563.9	90.9	174.5	699.2	3 068.7	2 738.2	5 803.5	132.6	.81	123	103	20 035.5
1968 ASM....	(NA)	(NA)	172.7	1 505.7	95.0	181.4	678.1	2 833.2	2 725.8	5 576.7	181.6	.88	131	100	19 527.6
1967 CENSUS.	1 945	572	162.2	1 366.7	90.2	177.0	629.3	2 038.5	2 445.6	4 479.9	262.0	.84	123	99	19 323.2
1966 ASM....	(NA)	(NA)	145.6	1 218.4	85.6	166.4	568.5	1 641.2	2 000.3	3 763.7	249.7	.77	110	98	19 024.5
1965 ASM....	(NA)	(NA)	118.2	917.5	71.9	138.8	454.0	1 495.0	1 654.1	3 285.8	88.0	.66	90	92	18 010.2
1964 ASM....	(NA)	(NA)	126.4	909.0	74.1	147.0	451.8	1 704.5	1 366.2	3 314.1	67.9	.73	96	89	17 268.5
1963 CENSUS.	2 052	497	121.6	855.2	70.2	139.2	421.5	1 480.8	(NA)	(NA)	52.3	.72	92	87	16 958.4

(NA) Not available.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
WASHINGTON									
1977 CENSUS.....	15 297	68	1 871	7.05	59	78	33 787	45	26.48
1976 ASM.....	14 725	67	1 882	6.79	60	79	29 893	49	23.75
1975 ASM.....	13 245	67	1 841	6.07	59	78	29 402	45	23.79
1974 ASM.....	11 643	67	1 865	5.35	58	77	27 008	43	21.46
1973 ASM.....	10 727	70	1 862	4.95	56	75	23 422	46	17.92
1972 CENSUS.....	10 214	71	1 898	4.65	55	76	20 891	49	15.57
1971 ASM.....	9 342	67	1 866	4.36	52	71	18 654	50	14.89
1970 ASM.....	9 287	66	1 891	4.27	57	78	17 241	54	13.74
1969 ASM.....	8 963	65	1 912	3.92	52	75	18 815	48	15.11
1968 ASM.....	8 255	65	1 922	3.65	52	76	17 008	49	13.70
1967 CENSUS.....	7 828	66	1 939	3.42	56	81	13 905	56	10.92
1966 ASM.....	7 678	68	1 939	3.34	56	81	13 073	59	9.90
1965 ASM.....	7 215	70	1 957	3.18	54	77	13 653	53	9.93
1964 ASM.....	6 861	68	1 974	3.06	49	73	13 748	50	10.28
1963 CENSUS.....	6 591	68	1 953	2.96	(NA)	(NA)	12 856	51	9.70
SEATTLE-TACOMA SCSA									
1977 CENSUS.....	15 870	61	1 832	7.09	55	78	32 108	49	28.86
1972 CENSUS.....	10 847	63	1 892	4.72	51	76	20 125	54	16.89
PORTLAND, OREG.-WASH., SMSA									
1977 CENSUS.....	14 005	68	1 862	6.45	55	77	29 694	47	23.35
1976 ASM.....	12 998	69	1 832	6.27	56	77	27 344	48	21.60
1975 ASM.....	11 872	67	1 832	5.81	57	79	24 161	49	19.70
1974 ASM.....	10 789	71	1 854	5.10	58	79	22 179	49	16.82
1973 ASM.....	10 092	71	1 892	4.67	56	79	19 626	51	14.63
1972 CENSUS.....	9 362	72	1 889	4.35	55	78	18 483	51	13.54
1971 ASM.....	8 412	71	1 884	3.98	54	79	15 783	53	11.84
1970 ASM.....	7 745	71	1 892	3.66	54	78	15 188	51	11.38
1969 ASM.....	7 566	73	1 901	3.54	54	77	15 209	50	10.96
1968 ASM.....	7 277	73	1 928	3.39	55	78	14 684	50	10.41
1967 CENSUS.....	7 030	73	1 950	3.23	54	77	13 977	50	9.79
1966 ASM.....	6 835	73	1 971	3.15	56	78	13 484	51	9.39
1965 ASM.....	6 604	73	1 953	3.05	57	79	12 996	51	9.09
1964 ASM.....	6 312	73	1 957	2.90	56	79	12 313	51	8.60
1963 CENSUS.....	6 015	73	1 945	2.80	(NA)	(NA)	11 764	51	8.31
SEATTLE-EVERETT SMSA									
1977 CENSUS.....	16 012	60	1 820	7.12	55	78	31 551	51	29.10
1976 ASM.....	15 769	57	1 886	6.77	54	78	27 966	56	26.22
1975 ASM.....	14 340	57	1 853	6.16	51	75	29 141	49	27.64
1974 ASM.....	12 403	58	1 858	5.36	50	72	27 782	45	25.59
1973 ASM.....	11 452	61	1 813	5.09	51	74	22 484	51	20.29
1972 CENSUS.....	11 009	61	1 898	4.73	49	74	20 577	54	17.68
1971 ASM.....	9 871	56	1 815	4.62	49	70	18 808	52	18.55
1970 ASM.....	10 165	56	1 865	4.71	55	79	16 434	62	15.71
1969 ASM.....	9 648	56	1 920	4.01	47	74	18 931	51	17.59
1968 ASM.....	8 719	55	1 909	3.74	49	76	16 405	53	15.62
1967 CENSUS.....	8 426	56	1 962	3.56	55	85	12 568	67	11.52
1966 ASM.....	8 368	59	1 944	3.42	53	86	11 272	74	9.86
1965 ASM.....	7 762	61	1 930	3.27	50	78	12 648	61	10.77
1964 ASM.....	7 191	59	1 984	3.07	41	69	13 485	53	11.60
1963 CENSUS.....	7 033	58	1 983	3.03	(NA)	(NA)	12 178	58	10.64

Note: For qualifications to data, see footnotes on table 2a.
(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹	number	6 723	5 345
With 1 to 19 employees	do	5 011	3 882
With 20 to 99 employees	do	1 239	1 067
With 100 employees or more	do	473	396
All employees, average for year ¹	1,000	265.0	226.0
Payroll for year, all employees ¹	mil. dollars ..	4 054.3	2 308.4
Production workers:			
Average for year	1,000	180.7	159.8
March	do	171.7	151.6
May	do	179.3	158.6
August	do	186.2	165.5
November	do	184.9	163.4
Hours	millions	338.2	303.3
January to March	do	80.7	71.1
April to June	do	86.0	76.9
July to September	do	87.3	77.7
October to December	do	84.2	77.6
Wages	mil. dollars ..	2 385.0	1 410.9
Cost of materials, etc. ²	do	12 921.4	5 930.1
Materials, parts, containers, etc., consumed	do	11 074.1	5 224.5
Resales	do	1 041.8	364.0
Fuels consumed	do	280.5	100.7
Purchased electric energy	do	158.2	87.8
Contract work	do	366.8	153.1
Value of shipments, including resales ²	do	21 746.9	10 815.7
Value of resales	do	1 245.9	471.7
Value added by manufacture	do	8 955.0	4 721.4
Manufacturers' inventories:			
Beginning of year	do	3 347.7	2 953.8
Finished products	do	1 020.7	494.6
Work in process	do	1 416.2	2 062.0
Materials, supplies, fuel, etc.	do	910.8	397.2
End of year	do	3 544.9	2 808.3
Finished products	do	1 059.2	470.5
Work in process	do	1 478.1	1 901.6
Materials, supplies, fuel, etc.	do	1 007.7	436.2
Capital expenditures for plant and equipment	do	940.7	369.4
New capital expenditures	do	850.0	353.7
New buildings and other structures	do	146.1	88.9
New machinery and equipment	do	703.9	264.8
Used capital expenditures	do	90.7	15.7

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.
¹Including central administrative offices and auxiliaries (for definition, see appendix B).
²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	100.9	4
Beginning of year.....	7,351.1	1	Buildings and other structures.....	44.1	6
New capital expenditures.....	951.7	2	Machinery and equipment.....	56.9	4
Used capital expenditures.....	93.1	5			
Retirements.....	264.2	8	Depreciation charges during 1977:		
End of year.....	8,131.7	1	Total.....	461.0	2
Buildings and other structures:			Buildings and other structures.....	93.1	3
Beginning of year.....	2,108.4	1	Machinery and equipment.....	368.0	3
New capital expenditures.....	159.4	5			
Used capital expenditures.....	15.0	8	Supplemental labor costs:		
Retirements.....	(65.0)	18	Total.....	931.8	1
End of year.....	2,217.8	1	Legal costs.....	350.1	2
Machinery and equipment:			Voluntary costs.....	581.7	1
Beginning of year.....	5,242.8	1			
New capital expenditures.....	792.3	2	Purchased services:		
Automobiles, trucks, etc., for highway use...	41.3	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	12.0	(NA)	Buildings and other structures.....	23.3	1
All other.....	561.6	(NA)	Response coverage ratio (percent).....	60	(X)
New machinery and equipment, n.s.k.....	177.4	(NA)	Machinery.....	(104.9)	21
Used capital expenditures.....	78.1	5	Response coverage ratio (percent).....	60	(X)
Retirements.....	199.4	10	Cost of purchased communication services.....	(34.9)	99
End of year.....	5,913.8	1	Response coverage ratio (percent).....	62	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.
Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind.
(S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area		1977											1972	
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
Washington -----	-	6 723	1 712	265.0	4 054.3	180.7	338.2	2 385.0	8 955.0	12 921.4	21 746.9	850.0	226.0	4 721.4
STANDARD CONSOLIDATED STATISTICAL AREAS														
Seattle-Tacoma -----	-	3 332	905	153.2	2 431.4	93.0	170.4	1 208.6	4 919.3	5 887.4	10 716.6	267.6	129.1	2 598.1
STANDARD METROPOLITAN STATISTICAL AREAS														
Portland, Oreg.-Wash. -----	-	2 440	724	99.4	1 392.1	67.9	126.4	815.4	2 951.6	3 623.4	6 544.8	236.4	86.4	1 596.9
Portion in Washington -----	-	258	69	12.2	179.0	9.5	18.3	129.5	439.2	717.2	1 156.8	33.1	11.3	245.9
Portion in Oregon -----	-	2 182	655	87.2	1 213.1	58.4	108.1	685.8	2 512.4	2 906.2	5 388.1	203.2	75.0	1 351.0
Richland-Kennewick -----	-	107	31	8.5	129.3	5.5	11.0	69.5	342.6	256.5	596.2	63.9	5.8	147.0
Seattle-Everett -----	-	2 717	733	131.9	2 111.6	78.6	143.0	1 017.8	4 161.0	4 940.0	9 015.4	213.4	108.6	2 234.7
Spokane -----	-	447	132	16.0	228.6	11.6	21.9	151.2	551.4	744.0	1 281.0	50.0	12.2	237.4
Tacoma -----	-	615	172	21.3	319.8	14.5	27.5	190.8	758.3	947.4	1 701.2	54.1	20.4	362.5
Yakima -----	-	234	85	8.0	101.5	6.5	12.9	76.0	245.9	453.4	690.1	19.0	6.6	142.6
COUNTIES														
Adams -----	-	12	3	0.9	8.8	0.7	1.5	6.7	19.7	43.6	63.3	0.1	(D)	(D)
Asotin -----	E1	13	1	0.1	1.2	0.1	0.2	1.0	4.0	3.7	7.7	0.1	(D)	(D)
Benton -----	-	66	21	6.5	108.6	3.9	7.8	53.8	289.0	108.4	394.0	(D)	4.5	127.5
Chelan -----	-	82	24	2.9	41.7	2.4	4.9	32.2	196.7	163.0	388.2	10.4	1.5	27.0
Cllallam -----	E1	251	40	4.5	60.9	3.8	6.5	47.9	157.6	188.4	344.3	34.4	3.5	66.9
Clark -----	-	258	69	12.2	179.0	9.5	18.3	129.5	439.2	717.2	1 156.8	33.1	11.3	245.9
Columbia -----	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cowlitz -----	-	166	56	12.4	212.5	10.0	19.3	163.8	490.4	799.0	1 287.2	146.8	11.8	293.4
Douglas -----	-	8	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Ferry -----	E1	19	3	0.3	4.4	0.3	0.6	4.0	11.0	9.0	19.8	0.6	0.4	5.7
Franklin -----	-	41	10	2.0	20.7	1.6	3.2	15.7	53.6	148.1	202.2	(D)	1.4	19.5
Garfield -----	E0	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Grant -----	-	39	11	2.1	23.0	1.8	3.5	17.6	82.8	109.2	178.6	3.5	2.5	78.9
Grays Harbor -----	-	324	73	9.1	130.2	7.7	13.7	105.2	366.1	505.4	859.4	51.0	7.8	157.6
Island -----	E1	23	3	0.3	2.7	0.2	0.4	1.9	8.3	3.2	11.7	0.5	0.1	2.4
Jefferson -----	-	56	3	0.8	12.9	0.7	1.4	11.6	32.7	33.4	86.3	(D)	1.0	21.9
King -----	-	2 212	619	110.5	1 786.9	63.4	115.5	819.5	3 313.6	3 796.9	6 951.7	169.7	89.4	1 840.9
Kitsap -----	-	73	11	1.3	19.8	0.8	1.4	8.2	35.3	25.0	59.3	1.1	0.7	15.1
Kittitas -----	-	54	6	0.8	10.7	0.7	1.3	9.0	23.2	90.5	113.5	1.3	2.0	47.2
Klickitat -----	-	56	11	1.5	23.4	1.3	2.4	18.7	56.0	94.5	152.8	4.0	1.6	36.9
Lewis -----	-	195	52	4.8	66.9	3.9	7.7	51.0	144.6	308.6	454.9	23.8	4.8	86.9
Lincoln -----	E3	10	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	(NA)
Mason -----	-	97	13	2.3	34.9	1.7	3.1	23.5	59.4	91.2	151.0	7.2	2.1	32.9
Okanogan -----	-	54	9	1.6	27.0	1.4	3.7	22.9	40.9	50.0	88.2	7.2	1.7	31.2
Pacific -----	-	68	15	1.2	14.2	1.1	1.8	12.0	24.6	39.1	63.7	1.3	1.2	22.1
Pend Oreille -----	-	39	7	0.5	7.0	0.5	0.9	6.2	16.2	19.6	36.0	1.6	0.3	8.0
Pierce -----	-	615	172	21.3	319.8	14.5	27.5	190.8	758.3	947.4	1 701.2	54.1	20.4	362.5
San Juan -----	E2	25	-	0.1	1.0	0.1	0.1	0.7	2.2	3.9	6.1	0.1	0.1	0.6
Skagit -----	-	151	34	4.1	56.1	3.2	5.8	40.5	114.0	866.1	981.3	11.7	4.4	98.6
Skamania -----	E1	25	6	0.9	11.2	0.8	1.4	9.7	17.1	24.8	42.5	2.5	0.9	12.7
Snohomish -----	-	505	114	21.4	324.7	15.2	27.4	198.2	847.4	1 143.1	2 063.7	43.8	19.2	393.9
Spokane -----	-	447	132	16.0	226.6	11.6	21.9	151.2	551.4	744.0	1 281.0	50.0	12.2	237.4
Stevens -----	-	94	16	1.7	25.9	1.5	3.0	21.0	46.0	86.8	130.1	14.8	1.0	18.4
Thurston -----	-	125	29	3.4	46.0	2.6	5.0	33.5	132.4	214.8	346.0	11.3	2.5	64.8
Wahkiakum -----	-	13	2	0.3	6.5	0.3	0.6	5.5	2.8	24.5	27.6	(D)	0.4	6.1
Walla Walla -----	-	62	16	2.2	27.9	1.6	3.1	19.2	77.8	90.2	165.5	(D)	1.9	47.6
Whatcom -----	-	183	41	6.4	103.5	4.9	9.5	71.9	280.5	958.9	1 249.2	53.7	4.9	135.7
Whitman -----	E3	20	2	0.1	1.3	0.1	0.1	0.7	2.0	2.1	4.1	0.1	(D)	(D)
Yakima -----	-	234	85	8.0	101.5	6.5	12.9	76.0	245.9	453.4	690.1	19.0	6.6	142.6
CITIES														
Aberdeen -----	-	81	18	1.7	25.1	1.4	2.7	20.0	98.6	65.1	158.6	7.6	1.5	34.2
Anacortes -----	-	26	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	57.8
Auburn -----	E3	66	11	0.9	10.3	0.7	1.2	6.7	44.5	26.1	54.5	1.8	0.8	11.6
Bellevue -----	E1	127	27	3.0	51.0	1.5	2.8	18.4	59.9	117.6	176.1	10.4	1.8	40.1
Bellingham -----	-	87	19	2.8	43.3	2.1	4.2	32.0	156.7	146.2	301.2	(D)	(D)	(D)
Camas -----	-	11	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Centralia -----	-	40	11	1.1	11.7	0.7	1.4	6.9	22.2	23.2	45.1	1.1	0.8	8.6
Chehalis -----	-	65	20	2.0	30.5	1.6	3.2	23.9	67.4	202.9	272.9	12.4	1.8	34.1
Coville -----	-	46	6	0.5	6.8	0.5	0.9	5.7	13.4	16.2	28.9	(D)	(NA)	(NA)
Everett -----	-	118	42	7.7	123.8	5.8	11.1	89.1	252.5	373.0	624.9	27.2	13.6	301.3
Hoquiam -----	-	88	24	3.7	55.7	3.1	5.4	44.9	140.6	230.2	364.3	27.7	3.2	51.6
Kelso -----	E1	28	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	7.2
Kennewick -----	-	30	4	0.8	10.7	0.7	1.3	8.3	38.2	35.0	71.5	3.2	(NA)	(NA)
Kent -----	-	125	48	4.5	64.0	2.9	5.6	32.1	128.9	155.4	279.9	5.0	2.6	45.9
Kirkland -----	E1	40	12	1.1	15.2	0.8	1.5	7.8	31.2	38.6	68.9	2.2	0.7	12.0
Longview -----	-	83	33	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	5.3	116.1
Lynnwood -----	E2	45	7	0.6	7.4	0.4	0.9	4.8	15.5	11.7	26.8	1.1	(NA)	(NA)
Marysville -----	-	36	6	1.1	13.3	0.9	1.7	9.8	23.5	34.1	56.7	1.6	0.7	11.6
Monroe -----	-	30	4	0.6	2.7	0.4	0.6	1.9	12.3	27.7	39.3	0.6	(NA)	(NA)
Moses Lake -----	-	25	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.9	60.8
Mount Vernon -----	-	35	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	13.5
Olympia -----	-	89	23	2.8	39.6	2.2	4.2	28.7	121.9	195.5	316.4	11.0	1.9	55.8
Omak -----	-	9	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Othello -----	-	7	3	0.8	8.6	0.7	1.5	6.6	19.3	43.3	62.5	(D)	(D)	(D)
Pasco -----	-	37	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSCA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	1977											1972		
	E ¹	All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
CITIES—Con.														
Port Angeles -----	-	86	15	2.0	28.0	1.7	3.0	21.8	68.5	97.1	163.9	21.1	2.1	44.4
Port Townsend -----	-	23	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Prosser -----	-	11	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	7.1
Puyallup -----	E1	30	9	0.6	5.6	0.5	0.9	4.3	11.2	13.5	24.3	1.0	(NA)	(NA)
Raymond -----	-	17	6	0.6	9.2	0.5	0.9	7.9	15.3	27.5	43.0	0.7	(D)	(D)
Redmond -----	-	58	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	28.8
Renton -----	-	74	25	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Richland -----	-	22	10	4.8	87.4	2.5	5.1	37.6	218.1	37.0	254.3	7.2	(D)	(D)
Seattle -----	-	1 270	372	61.2	985.8	34.5	64.5	442.4	1 804.7	1 748.0	3 637.4	83.2	54.9	1 097.7
Sedro-Woolley -----	-	35	5	0.9	14.3	0.7	1.3	10.5	24.9	29.7	54.6	2.8	1.1	16.0
Shelton -----	-	84	13	2.2	34.7	1.7	3.0	23.3	58.8	90.5	149.7	7.2	(D)	(D)
Spokane -----	E1	270	68	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.3	142.4
Sumner -----	-	24	9	0.6	6.9	0.4	0.8	5.2	13.6	19.9	33.2	(D)	0.7	10.2
Tacoma -----	-	341	121	14.9	219.0	11.0	21.1	149.6	505.8	696.0	1 198.5	36.2	16.4	300.7
Toppenish -----	-	9	4	0.8	9.9	0.7	1.4	8.8	40.0	95.9	130.7	1.0	0.8	23.1
Tukwila -----	-	36	16	0.9	12.6	0.6	1.3	7.3	28.3	34.6	62.9	1.3	(NA)	(NA)
Vancouver -----	-	97	32	5.0	65.7	3.9	7.3	46.7	146.2	199.4	345.0	17.3	4.9	105.6
Walla Walla -----	-	49	10	1.3	16.2	1.0	2.0	10.7	45.1	40.6	83.4	1.3	(D)	(D)
Washougal -----	E1	17	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wenatchee -----	-	45	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	14.2
Yakima -----	-	125	47	4.4	59.2	3.4	7.0	42.3	129.6	210.5	336.6	12.1	3.1	69.0

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E10—100 percent.
² Including central administrative offices and auxiliaries (for definition, see appendix B).
³ Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
20	All industries -----	-	6 723	1 712	265.0	4 054.3	180.7	338.2	2 385.0	8 955.0	12 921.4	21 746.9	850.0	226.0	4 721.4
201	Food and kindred products -----	-	540	241	29.3	363.3	23.1	43.8	257.6	1 039.5	2 246.9	3 254.8	81.5	26.9	590.5
2011	Meat products -----	-	48	23	3.2	45.5	2.6	5.3	38.5	81.6	489.3	570.6	11.6	2.7	61.6
2013	Meat packing plants -----	-	31	14	2.4	37.6	2.0	4.2	31.7	67.0	446.7	513.5	10.8	1.8	51.0
2016	Sausages and other prepared meats -----	-	9	3	0.2	3.1	0.2	0.3	2.6	8.6	8.9	17.4	0.4	BB	(D)
2016	Poultry dressing plants -----	-	8	6	0.6	4.8	0.4	0.8	4.1	6.0	33.7	39.7	0.4	CC	(D)
202	Dairy products -----	-	56	26	2.0	36.6	1.1	2.2	19.2	78.8	326.5	402.8	4.2	2.6	56.9
2022	Cheese, natural and processed -----	E2	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2024	Ice cream and frozen desserts -----	-	7	4	0.2	3.7	0.1	0.3	2.6	10.9	25.1	35.9	1.1	0.2	5.6
2026	Fluid milk -----	-	37	17	1.5	26.6	0.7	1.4	12.5	49.8	181.4	231.0	2.3	EE	(D)
203	Preserved fruits and vegetables -----	-	90	59	10.2	102.4	9.2	17.4	84.4	306.5	452.7	757.9	21.5	8.6	171.0
2033	Canned fruits and vegetables -----	-	26	18	3.0	29.3	2.7	5.2	25.1	95.7	155.6	250.5	4.8	EE	(D)
2034	Dehydrated fruits, vegetables, and soups -----	-	10	9	0.7	7.0	0.6	1.2	5.3	24.3	44.2	67.3	3.1	0.6	14.5
2035	Pickles, sauces, and salad dressings -----	-	8	3	0.5	5.2	0.4	0.7	4.0	18.7	43.2	61.9	0.3	BB	(D)
2037	Frozen fruits and vegetables -----	-	35	25	5.7	58.4	5.2	9.9	48.2	163.9	202.3	366.9	12.1	5.0	79.4
2038	Frozen specialties -----	E2	9	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
20	Food and kindred products—Con.														
204	Grain mill products -----	-	55	15	1.2	17.2	0.9	1.8	12.1	47.6	201.8	247.6	(D)	1.4	49.1
2041	Flour and other grain mill products -----	-	7	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2045	Blended and prepared flour --	-	8	2	0.2	2.8	0.1	0.3	1.7	9.0	20.4	29.4	0.5	AA	(D)
2048	Prepared feeds, n.e.c. -----	-	30	8	0.5	5.9	0.3	0.6	3.7	17.1	87.7	104.3	0.6	0.5	20.2
205	Bakery products -----	-	42	14	2.6	40.1	1.6	2.8	22.1	102.2	52.7	154.8	7.3	2.5	41.9
2051	Bread, cake, and related products -----	-	38	13	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2052	Cookies and crackers -----	E1	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
206	Sugar and confectionery products -----	-	17	8	1.6	17.2	1.4	2.6	13.9	60.9	74.0	113.7	(D)	1.4	23.2
2063	Beet sugar -----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2065	Confectionery products -----	-	14	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
207	Fats and oils -----	-	16	6	0.3	3.9	0.2	0.4	2.6	12.0	35.1	47.3	2.5	0.3	6.3
2077	Animal and marine fats and oils -----	-	14	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
208	Beverages -----	-	51	27	3.2	50.7	1.8	3.6	28.6	169.6	289.8	456.5	22.3	3.0	94.7
2082	Malt beverages -----	-	6	6	1.6	25.9	1.1	2.0	17.5	90.1	144.7	235.4	3.3	EE	(D)
2086	Bottled and canned soft drinks -----	-	34	16	1.3	19.2	0.6	1.2	8.4	59.0	101.4	159.7	10.2	EE	(D)
2087	Flavoring extracts and sirups, n.e.c. -----	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
209	Miscellaneous foods and kindred products -----	-	165	63	5.1	49.6	4.3	7.7	36.2	180.3	325.1	503.6	7.7	4.4	85.9
2091	Canned and cured seafoods -	-	37	15	1.6	14.5	1.4	2.6	11.5	37.4	76.1	113.7	3.0	EE	(D)
2092	Fresh or frozen packaged fish -----	E1	69	34	2.1	18.1	1.8	3.1	14.2	81.4	179.3	259.6	2.4	1.4	21.0
2098	Macaroni and spaghetti -----	-	5	4	0.3	3.2	0.2	0.4	1.9	9.2	11.6	20.8	0.1	0.2	4.3
2099	Food preparations, n.e.c. -----	-	46	10	1.1	13.1	0.9	1.5	8.4	51.2	56.5	106.9	2.1	CC	(D)
22	Textile mill products --	E1	28	9	1.0	8.4	0.9	1.6	6.3	16.4	15.0	30.0	0.6	0.6	9.9
2231	Weaving and finishing mills, wool -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
225	Knitting mills -----	E2	8	5	0.3	2.0	0.2	0.4	1.4	3.9	3.3	7.0	(D)	(NA)	(NA)
2253	Knit outerwear mills -----	E1	7	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
23	Apparel and other textile products -----	-	195	66	6.6	50.2	5.7	10.1	37.0	91.5	102.2	194.8	4.5	6.3	66.9
2311	Men's and boys' suits and coats -----	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
232	Men's and boys' furnishings -	-	29	26	3.3	23.9	2.8	5.2	17.5	48.7	54.8	103.6	(D)	4.0	47.0
2327	Men's and boys' separate trousers -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2328	Men's and boys' work clothing -----	-	4	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2329	Men's and boys' clothing, n.e.c. -----	-	22	19	2.4	16.2	2.1	3.8	13.2	37.0	38.3	74.0	2.1	2.3	30.6
233	Women's and misses' outerwear -----	-	31	14	1.3	10.3	1.1	2.0	8.2	13.9	11.6	27.5	(D)	0.9	7.1
2337	Women's and misses' suits and coats -----	-	12	7	0.5	4.0	0.5	0.8	3.5	5.8	3.6	9.5	0.1	BB	(D)
2339	Women's and misses' outerwear, n.e.c. -----	E1	9	7	0.8	6.2	0.7	1.2	4.6	7.7	7.8	17.3	(D)	AA	(D)
236	Children's outerwear -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2363	Children's coats and suits -	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
238	Miscellaneous apparel and accessories -----	E1	11	3	0.2	1.6	0.2	0.3	1.2	2.7	3.2	5.7	(D)	AA	(D)
239	Miscellaneous fabricated textile products -----	E1	110	19	1.3	10.7	1.1	2.0	7.4	18.7	24.9	43.3	(D)	1.0	10.4
2391	Curtains and draperies -----	E2	47	10	0.6	4.0	0.5	0.8	2.8	5.9	6.1	11.9	0.1	0.3	1.9
2394	Canvas and related products -----	-	30	4	0.4	3.5	0.3	0.6	2.3	5.5	6.5	11.9	0.2	0.2	2.0
24	Lumber and wood products -----	-	2 113	429	51.7	725.5	45.4	86.1	603.8	1 540.6	2 577.2	4 096.6	200.1	48.3	941.7
2411	Logging camps and logging contractors -----	-	1 155	106	15.4	227.6	13.4	24.5	192.5	543.8	1 090.9	1 632.0	96.0	FF	(D)
242	Sawmills and planing mills ----	-	571	177	20.2	284.0	18.0	35.1	242.1	579.8	842.1	1 405.9	80.5	FF	(D)
2421	Sawmills and planing mills, general -----	-	255	111	15.8	243.4	14.2	28.8	209.3	499.8	745.7	1 230.5	73.8	FF	(D)
2426	Hardwood dimension and flooring -----	-	14	4	0.4	2.3	0.4	0.5	1.8	3.3	3.2	6.7	(D)	0.3	2.9
2429	Special product sawmills, n.e.c. -----	E1	302	62	4.0	38.4	3.5	5.7	31.0	76.7	93.2	168.8	(D)	FF	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

(Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B)

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
24	Lumber and wood products—Con.														
243	Millwork, plywood, and structural members -----	-	248	97	12.2	166.0	10.7	20.6	136.7	325.9	483.7	807.8	18.6	12.5	224.4
2431	Millwork -----	-	101	37	3.5	43.4	3.1	5.7	34.8	84.4	136.5	220.6	2.3	FF	(D)
2434	Wood kitchen cabinets -----	-	71	16	1.6	22.0	1.4	2.6	16.0	34.5	30.0	66.1	1.0	1.3	14.4
2435	Hardwood veneer and plywood -----	-	11	5	0.8	11.7	0.7	1.3	10.0	18.9	41.5	60.5	0.5	0.9	18.9
2436	Softwood veneer and plywood -----	-	32	27	5.4	79.8	4.9	9.8	69.8	170.1	246.1	413.8	13.7	FF	(D)
2439	Structural wood members, n.e.c. -----	-	33	12	0.8	9.1	0.6	1.1	6.1	17.9	29.6	46.9	1.2	CC	(D)
244	Wood containers -----	E1	31	10	1.0	9.7	0.9	1.5	7.6	18.7	20.0	37.9	0.8	CC	(D)
2441	Nailed wood boxes and shooks -----	-	11	3	0.5	5.4	0.5	0.8	4.3	10.1	10.3	19.7	0.3	BB	(D)
2448	Wood pallets and skids -----	E2	18	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.5
245	Wood buildings and mobile homes -----	E1	26	17	1.5	20.2	1.1	2.2	12.2	42.8	69.9	112.7	2.2	EE	(D)
2451	Mobile homes -----	-	8	7	0.8	9.9	0.7	1.4	7.3	20.3	37.0	57.2	0.6	0.8	9.9
2452	Prefabricated wood buildings -----	E3	18	10	0.7	10.3	0.4	0.8	4.9	22.5	32.9	55.4	1.6	BB	(D)
249	Miscellaneous wood products --	-	82	22	1.5	17.9	1.2	2.2	12.6	29.6	70.5	100.2	2.0	1.2	14.8
2491	Wood preserving -----	-	21	9	0.6	8.4	0.5	0.9	6.2	11.6	33.8	45.5	0.9	CC	(D)
2499	Wood products, n.e.c. -----	-	60	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	7.7
25	Furniture and fixtures -	E1	144	45	3.2	31.5	2.6	4.5	21.9	72.5	56.6	127.9	3.3	2.5	33.5
251	Household furniture -----	E2	84	24	1.7	15.5	1.5	2.5	11.2	36.7	32.7	68.9	(D)	1.6	17.5
2511	Wood household furniture --	E1	49	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	7.0
2512	Upholstered household furniture -----	E3	15	10	0.8	7.1	0.7	1.1	5.3	12.7	12.5	25.2	(D)	BB	(D)
2515	Mattresses and bedsprings --	E2	18	9	0.5	5.1	0.3	0.6	3.2	14.5	13.3	27.5	(D)	0.3	6.1
252	Office furniture -----	E1	9	4	0.2	1.9	0.2	0.3	1.5	3.5	2.1	5.6	(D)	(NA)	(NA)
2521	Wood office furniture -----	-	8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2531	Public building and related furniture -----	-	8	6	0.7	8.1	0.5	0.9	5.2	17.9	13.0	30.4	(D)	0.5	8.7
254	Partitions and fixtures -----	E1	33	7	0.4	4.7	0.3	0.6	3.2	9.8	6.4	16.0	(D)	0.2	3.9
2541	Wood partitions and fixtures --	-	31	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
259	Miscellaneous furniture and fixtures -----	E1	10	4	0.2	1.3	0.2	0.3	0.9	4.6	2.4	7.0	(D)	0.2	2.3
2599	Furniture and fixtures, n.e.c. -	-	7	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
26	Paper and allied products -----	-	95	67	16.9	309.3	13.4	26.5	238.3	784.6	1 141.4	1 927.6	239.0	17.2	470.7
2611	Pulp mills-----	-	7	7	2.8	55.3	2.2	4.3	42.5	171.0	173.6	341.6	69.1	FF	(D)
2621	Paper mills, except building paper -----	-	13	12	7.0	133.7	5.6	10.8	104.2	361.4	476.9	843.4	114.6	5.4	134.1
2631	Paperboard mills -----	-	4	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	107.9
264	Miscellaneous converted paper products -----	-	41	20	3.2	50.5	2.6	5.3	39.5	120.0	243.6	364.2	(D)	2.6	68.3
2641	Paper coating and glazing --	E1	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2642	Envelopes -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2643	Bags, except textile bags -----	-	11	9	1.0	14.2	0.8	1.6	10.9	30.7	44.7	75.1	1.7	CC	(D)
2645	Die-cut paper and board -----	-	6	2	0.2	2.0	0.1	0.2	1.4	3.7	5.0	8.7	(Z)	(NA)	(NA)
2647	Sanitary paper products -----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
265	Paperboard containers and boxes -----	-	30	24	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2651	Folding paperboard boxes --	-	6	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2653	Corrugated and solid fiber boxes -----	-	17	14	1.7	27.5	1.2	2.4	18.8	49.0	99.8	148.5	3.0	EE	(D)
2654	Sanitary food containers -----	-	3	3	0.3	4.2	0.2	0.4	3.1	10.6	24.9	35.2	0.6	BB	(D)
27	Printing and publishing -----	E1	711	99	11.3	154.2	6.3	10.5	80.0	305.4	122.4	427.2	15.3	10.6	176.0
2711	Newspapers -----	-	158	39	6.6	94.7	2.9	4.4	40.8	187.3	62.3	249.6	8.0	6.5	110.2
2721	Periodicals-----	E2	47	8	0.4	5.1	0.2	0.3	1.7	13.7	3.9	17.4	0.1	0.2	4.7
273	Books -----	E1	24	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.0
2732	Book printing -----	-	7	3	0.3	2.8	0.2	0.4	2.4	5.5	2.1	7.4	0.3	BB	(D)
275	Commercial printing -----	E2	398	34	2.9	37.8	2.3	4.1	26.3	73.0	40.7	113.5	5.7	2.5	40.5
2751	Commercial printing, letterpress -----	E4	219	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.9	13.0
2752	Commercial printing, lithographic -----	E1	171	26	1.9	26.2	1.4	2.6	18.2	49.6	27.4	76.8	4.4	1.6	26.9
2761	Manifold business forms -----	E1	13	6	0.4	5.8	0.3	0.5	3.4	10.4	8.3	18.8	0.6	0.3	4.0
278	Blankbooks and bookbinding --	-	11	4	0.2	2.1	0.2	0.3	1.6	4.0	0.9	4.9	0.2	0.3	5.7
279	Printing trade services-----	E1	40	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2791	Typesetting -----	E1	31	1	0.2	2.2	0.1	0.3	1.8	3.9	0.6	4.5	0.2	(NA)	(NA)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
28	Chemicals and allied products -----	-	137	40	6.4	113.7	3.3	6.8	49.6	374.9	206.5	576.7	81.5	5.7	181.9
281	Industrial inorganic chemicals --	-	24	10	4.2	81.2	2.1	4.5	35.5	262.0	47.0	307.9	9.4	3.8	128.8
2812	Alkalies and chlorine -----	-	3	3	0.5	7.4	0.3	0.6	5.4	58.8	26.7	85.2	5.1	BB	(D)
2819	Industrial inorganic chemicals, n.e.c. -----	-	12	6	3.7	72.1	1.7	3.8	29.2	197.2	16.6	213.2	(D)	FF	(D)
282	Plastics materials and synthetics -----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2821	Plastics materials and resins -	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
283	Drugs-----	E2	10	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
284	Soaps, cleaners, and toilet goods -----	E1	17	4	0.2	3.2	0.1	0.2	1.1	11.2	11.8	22.8	0.8	(NA)	(NA)
2851	Paints and allied products ---	E1	26	10	0.6	9.7	0.3	0.6	3.3	26.3	31.4	57.1	1.0	0.6	12.2
286	Industrial organic chemicals ---	-	7	3	0.2	3.5	0.1	0.2	1.7	24.2	23.5	47.6	(D)	AA	(D)
287	Agricultural chemicals -----	-	22	6	0.5	6.8	0.4	0.7	4.3	24.7	28.2	50.3	(D)	0.3	10.5
2873	Nitrogenous fertilizers -----	-	7	4	0.2	4.3	0.2	0.3	2.8	18.6	21.3	37.5	(D)	(NA)	(NA)
2879	Agricultural chemicals, n.e.c. -	E2	10	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
289	Miscellaneous chemical products -----	-	28	5	0.3	4.2	0.1	0.3	1.8	15.7	41.6	57.6	1.9	0.7	16.0
29	Petroleum and coal products -----	-	26	15	2.8	53.0	2.0	3.8	34.4	81.8	1 585.1	1 683.0	33.8	2.1	120.7
2911	Petroleum refining -----	-	7	7	1.5	31.6	1.0	1.9	18.8	46.7	1 528.7	1 591.9	27.4	EE	(D)
295	Paving and roofing materials ---	-	13	7	1.3	20.9	0.9	1.8	15.3	33.2	54.0	87.0	(D)	CC	(D)
2951	Paving mixtures and blocks ---	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2952	Asphalt felts and coatings ---	-	6	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	151	50	3.8	45.5	2.8	5.4	28.6	104.9	103.0	207.0	5.4	1.9	30.5
3069	Fabricated rubber products, n.e.c. -----	-	9	5	0.4	3.3	0.3	0.5	2.4	8.7	4.6	13.1	0.2	AA	(D)
3079	Miscellaneous plastics products -----	-	139	44	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.7	27.4
31	Leather and leather products -----	E1	19	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	4.4
3161	Luggage -----	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
32	Stone, clay, and glass products -----	E1	293	75	6.4	90.8	4.7	9.4	61.3	222.2	213.7	437.2	23.9	5.5	113.9
322	Glass and glassware, pressed or blown -----	-	4	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3221	Glass containers -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3231	Products of purchased glass ---	E1	15	1	0.2	2.1	0.1	0.3	1.5	4.9	8.7	13.6	0.2	(NA)	(NA)
3241	Cement, hydraulic -----	-	5	4	0.5	8.3	0.4	0.8	6.5	40.4	33.5	74.2	1.3	0.4	17.7
325	Structural clay products -----	E1	11	6	0.4	4.4	0.3	0.7	3.1	10.8	6.7	17.3	0.4	0.3	5.2
3251	Brick and structural clay tile -	E1	7	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.8
327	Concrete, gypsum, and plaster products -----	E1	191	57	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.5	64.9
3271	Concrete block and brick ---	-	13	4	0.2	3.2	0.1	0.3	1.7	6.8	10.0	16.8	0.5	AA	(D)
3272	Concrete products, n.e.c. ---	E1	81	15	1.2	16.8	0.9	1.7	10.7	31.6	29.1	60.5	2.8	1.5	29.0
3273	Ready-mixed concrete -----	E1	93	35	2.3	34.9	1.5	3.0	21.6	72.7	82.2	154.7	10.8	1.7	28.9
329	Miscellaneous nonmetallic mineral products -----	E1	34	5	0.8	8.7	0.6	1.2	6.2	24.4	17.6	42.2	2.3	0.5	9.1
3291	Abrasive products -----	-	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3299	Nonmetallic mineral products, n.e.c. -----	E1	14	2	0.3	2.9	0.3	0.5	2.1	9.3	4.7	14.1	1.7	(NA)	(NA)
33	Primary metal industries -----	-	110	52	15.3	272.1	12.0	23.2	206.1	992.9	1 182.1	2 173.2	56.1	13.0	365.1
331	Blast furnace and basic steel products -----	-	14	5	1.9	31.8	1.4	2.5	22.6	73.9	75.5	148.5	(D)	1.8	42.9
3312	Blast furnaces and steel mills -----	-	7	3	1.7	28.8	1.3	2.3	20.6	63.9	52.7	115.8	1.7	1.6	37.5
332	Iron and steel foundries -----	-	27	17	1.9	25.1	1.6	2.8	19.7	47.9	29.3	76.9	3.6	1.3	18.6
3321	Gray iron foundries -----	E1	13	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	4.3
3325	Steel foundries, n.e.c. -----	-	13	10	1.4	19.5	1.1	2.1	15.2	36.9	23.6	80.6	3.1	1.0	14.3
333	Primary nonferrous metals -----	-	12	11	6.8	132.9	5.4	10.8	100.4	658.1	590.0	1 354.9	19.4	6.1	239.6
3331	Primary copper -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3334	Primary aluminum -----	-	7	7	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3339	Primary nonferrous metals, n.e.c. -----	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3341	Secondary nonferrous metals --	-	6	3	0.3	3.4	0.2	0.4	2.3	11.1	20.1	30.6	0.7	AA	(D)

See footnotes at end of table.

Table 5. **Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—**
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
33	Primary metal industries—Con.														
335	Nonferrous rolling and drawing - Aluminum sheet, plate, and foil -----	-	11	9	3.8	71.1	2.9	5.7	55.2	189.2	354.4	537.1	(D)	FF	(D)
3353	Aluminum extruded products - Aluminum rolling and drawing, n.e.c. -----	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3354	Nonferrous rolling and drawing, n.e.c. -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3355	Nonferrous rolling and drawing, n.e.c. -----	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3356	Nonferrous rolling and drawing, n.e.c. -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
336	Nonferrous foundries -----	-	27	7	0.5	7.1	0.5	0.8	5.4	10.7	11.8	21.9	0.6	0.3	4.4
3361	Aluminum foundries -----	-	8	6	0.4	5.7	0.4	0.6	4.4	7.7	9.0	16.3	0.3	0.2	2.2
34	Fabricated metal products -----	-	478	124	10.8	158.3	8.2	15.7	106.3	345.7	327.3	665.9	20.6	7.5	145.9
341	Metal cans and shipping containers -----	-	8	5	0.7	13.4	0.6	1.4	11.8	67.2	76.0	140.5	(D)	CC	(D)
3411	Metal cans -----	-	6	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
342	Cutlery, hand tools, and hardware -----	E3	32	4	0.4	5.4	0.3	0.7	3.7	11.1	7.9	18.9	0.4	BB	(D)
3429	Hardware, n.e.c. -----	E4	22	3	0.3	3.5	0.2	0.5	2.5	7.1	5.1	12.2	(D)	AA	(D)
343	Plumbing and heating, except electric -----	E1	16	3	0.4	5.5	0.3	0.7	3.9	10.3	10.1	18.7	0.2	AA	(D)
3433	Heating equipment, except electric -----	E1	16	3	0.4	5.5	0.3	0.7	3.9	10.3	10.1	18.7	0.2	AA	(D)
344	Fabricated structural metal products -----	E1	234	72	6.4	101.3	4.6	8.9	63.8	194.0	183.4	375.5	12.7	FF	(D)
3441	Fabricated structural metal -----	-	55	30	2.2	39.7	1.7	3.3	27.6	76.3	55.8	134.2	3.1	1.8	33.8
3442	Metal doors, sash, and trim -----	-	39	11	1.1	13.9	0.9	1.6	8.3	29.1	33.9	62.1	1.2	0.8	13.7
3443	Fabricated plate work (boiler shops) -----	E1	37	12	1.6	27.1	1.0	2.1	14.9	43.6	30.8	72.7	5.8	CC	(D)
3444	Sheet metal work -----	E1	62	15	1.1	15.9	0.8	1.6	10.6	36.9	51.1	87.0	2.3	0.8	15.3
3448	Prefabricated metal buildings -----	E1	10	3	0.2	2.6	0.1	0.2	1.3	4.1	6.2	10.1	0.1	(NA)	(NA)
346	Metal forgings and stampings -----	E4	26	7	0.6	3.2	0.4	0.6	2.2	4.6	5.4	10.1	(D)	0.2	3.1
3469	Metal stampings, n.e.c. -----	E3	22	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
347	Metal services, n.e.c. -----	E1	57	8	0.7	9.3	0.6	1.2	6.7	17.0	6.2	23.2	0.8	0.5	8.2
3471	Plating and polishing -----	E1	39	7	0.6	7.5	0.5	1.0	5.4	14.1	4.3	18.2	0.7	0.4	6.4
349	Miscellaneous fabricated metal products -----	E1	91	20	1.3	16.8	1.0	1.9	12.4	33.8	33.4	66.9	2.4	CC	(D)
3496	Miscellaneous fabricated wire products -----	-	17	4	0.3	3.0	0.2	0.4	1.9	7.6	11.8	19.3	0.7	AA	(D)
3498	Fabricated pipe and fittings -----	-	9	2	0.4	5.7	0.3	0.6	4.7	10.5	9.5	20.1	(D)	AA	(D)
3499	Fabricated metal products, n.e.c. -----	E1	53	8	0.4	5.2	0.3	0.6	3.8	10.3	7.9	17.8	0.8	BB	(D)
35	Machinery, except electrical -----	E1	642	129	13.8	204.0	9.1	17.6	119.6	386.4	303.6	683.0	18.5	10.3	169.7
352	Farm and garden machinery -----	E1	45	10	0.8	10.8	0.6	1.1	7.0	22.0	21.8	43.8	1.0	BB	(D)
3523	Farm machinery and equipment -----	E2	43	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3524	Lawn and garden equipment -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
353	Construction and related machinery -----	-	70	29	3.3	51.8	2.1	4.0	30.2	110.2	106.1	212.8	5.5	EE	(D)
3531	Construction machinery -----	-	31	14	2.0	32.4	1.4	2.6	20.6	72.7	65.0	129.0	4.7	1.5	23.9
3532	Mining machinery -----	E1	7	3	0.4	6.2	0.1	0.3	1.9	13.2	17.5	36.6	0.3	(NA)	(NA)
3536	Hoists, cranes, and monorails -----	E1	9	5	0.5	7.0	0.3	0.6	4.4	13.1	11.9	24.2	0.1	BB	(D)
3537	Industrial trucks and tractors -----	-	13	6	0.3	5.0	0.2	0.4	2.7	9.2	9.6	18.9	0.3	(NA)	(NA)
354	Metallworking machinery -----	E2	39	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	9.9
3541	Machine tools, metal cutting types -----	E6	9	2	0.2	2.5	0.1	0.2	1.7	4.7	2.3	7.0	0.1	(NA)	(NA)
3542	Machine tools, metal forming types -----	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
355	Special industry machinery -----	-	77	20	2.6	40.5	1.6	3.0	22.7	70.3	60.7	128.6	2.3	FF	(D)
3551	Food products machinery -----	E1	18	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3553	Woodworking machinery -----	-	16	5	0.6	9.6	0.4	0.7	5.5	20.9	12.4	33.2	0.2	EE	(D)
3554	Paper industries machinery -----	-	3	3	0.5	8.1	0.3	0.5	3.9	14.2	10.7	23.6	(D)	CC	(D)
3555	Printing trades machinery -----	-	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3559	Special industry machinery, n.e.c. -----	-	31	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
356	General industrial machinery -----	E1	47	10	0.8	11.8	0.6	1.1	6.8	22.0	19.3	41.2	1.2	BB	(D)
3569	General industrial machinery, n.e.c. -----	-	26	6	0.5	6.5	0.3	0.6	3.3	13.1	12.3	25.0	1.1	(NA)	(NA)
357	Office and computing machines -----	-	25	5	1.3	17.0	0.6	1.4	5.5	39.0	22.6	61.1	2.0	0.9	15.0
3573	Electronic computing equipment -----	-	14	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3579	Office machines, n.e.c. and typewriters -----	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
35	Machinery, except electrical—Con.														
358	Refrigeration and service machinery -----	-	25	7	0.6	8.9	0.5	0.9	5.9	16.5	18.2	35.3	0.7	(NA)	(NA)
3585	Refrigeration and heating equipment -----	-	9	4	0.4	5.2	0.2	0.5	3.6	9.5	12.1	22.3	0.3	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E2	309	40	3.4	50.2	2.6	5.0	32.8	88.2	43.5	129.6	5.0	2.7	38.0
3599	Machinery, except electrical, n.e.c. -----	E2	307	40	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
36	Electric and electronic equipment -	E1	205	53	5.9	74.9	3.4	6.5	32.9	150.2	107.9	253.7	8.0	3.5	61.6
361	Electric distributing equipment -	E1	16	5	0.3	3.8	0.2	0.4	2.7	8.4	10.5	18.9	0.2	BB	(D)
3613	Switchgear and switchboard apparatus -----	E1	14	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
362	Electrical industrial apparatus --	E1	22	7	0.3	4.7	0.2	0.4	2.5	9.8	7.8	17.1	0.3	AA	(D)
3622	Industrial controls -----	-	11	3	0.2	2.8	0.1	0.2	1.2	5.3	4.3	9.2	0.1	(NA)	(NA)
363	Household appliances -----	-	12	5	0.4	3.9	0.3	0.5	2.3	8.5	13.1	22.2	0.3	(NA)	(NA)
3634	Electric housewares and fans -----	-	8	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
364	Electric lighting and wiring equipment -----	-	13	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3646	Commercial lighting fixtures --	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BE	(D)
3647	Vehicular lighting equipment -	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
365	Radio and TV receiving equipment -----	-	13	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3651	Radio and TV receiving sets -	-	9	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
366	Communication equipment ----	-	56	20	2.7	38.8	1.2	2.3	11.3	66.1	42.6	104.6	5.1	1.8	30.9
3661	Telephone and telegraph apparatus -----	-	12	5	0.7	7.6	0.4	0.8	3.3	13.9	16.4	29.9	(D)	CC	(D)
3662	Radio and TV communication equipment --	-	44	15	2.0	29.2	0.8	1.5	8.0	52.1	26.3	74.7	(D)	EE	(D)
367	Electronic components and accessories -----	E4	44	5	0.5	5.4	0.4	0.8	3.2	11.0	5.5	16.7	0.5	AA	(D)
3679	Electronic components, n.e.c. -----	E5	39	4	0.5	4.8	0.4	0.7	3.0	10.2	5.1	15.5	0.5	AA	(D)
369	Miscellaneous electrical equipment and supplies -----	-	29	5	0.6	8.2	0.3	0.6	3.6	20.6	11.1	31.5	0.4	BB	(D)
3693	X-ray, electromedical, and electrotherapeutic apparatus -	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
37	Transportation equipment -----	-	343	89	62.7	1 119.3	32.0	55.0	442.2	2 221.2	2 523.5	4 683.3	67.5	51.2	1 138.2
371	Motor vehicles and equipment -	-	61	17	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3711	Motor vehicles and car bodies -----	-	5	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3713	Truck and bus bodies -----	E1	10	2	0.2	2.5	0.1	0.2	1.6	4.1	5.6	9.5	(Z)	(NA)	(NA)
3714	Motor vehicle parts and accessories -----	E1	34	7	0.5	7.2	0.4	0.8	5.2	14.2	14.7	28.8	0.4	BB	(D)
3715	Truck trailers -----	-	10	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3716	Motor homes produced on purchased chassis -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
372	Aircraft and parts -----	-	42	18	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3721	Aircraft -----	-	8	3	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3728	Aircraft equipment, n.e.c. ----	-	32	15	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
373	Ship and boat building and repairing -----	-	190	42	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3731	Ship building and repairing --	-	32	16	7.1	119.3	5.7	11.2	84.5	242.2	121.4	363.7	5.9	FF	(D)
3732	Boat building and repairing --	-	158	26	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5	31.0
3743	Railroad equipment -----	-	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
376	Guided missiles, space vehicles, parts -----	-	4	3	0.8	15.9	0.2	0.4	2.7	21.2	7.1	28.8	(D)	FF	(D)
3761	Guided missiles and space vehicles -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3764	Space propulsion units and parts -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BE	(D)
3769	Space vehicle equipment, n.e.c. -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
379	Miscellaneous transportation equipment -----	E1	35	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	6.1
3792	Travel trailers and campers --	E2	25	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3799	Transportation equipment, n.e.c. -----	-	10	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	5.0

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Num-ber ² (1,000)	Payroll (million dollars)	Num-ber (1,000)	Hours (mil.)	Wages (million dollars)						
38	Instruments and related products -----	-	86	17	3.2	42.9	2.0	3.7	20.5	101.5	37.9	138.2	5.8	2.8	56.4
3811	Engineering and scientific instruments -----	-	10	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
382	Measuring and controlling devices -----	-	24	5	1.4	17.9	0.9	1.9	9.0	46.6	15.4	61.1	(D)	CC	(D)
3825	Instruments to measure electricity -----	-	8	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
384	Medical instruments and supplies -----	E1	26	4	0.3	3.6	0.2	0.3	1.6	7.9	5.9	13.8	0.5	0.8	17.2
3861	Photographic equipment and supplies -----	E3	10	3	0.2	2.6	0.1	0.1	1.2	5.1	3.0	8.0	0.2	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	E1	278	47	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9	43.9
391	Jewelry, silverware, and plated ware -----	E2	40	8	0.5	5.0	0.4	0.6	3.1	10.3	7.8	17.1	(D)	0.2	3.3
3911	Jewelry, precious metal -----	E1	35	8	0.5	4.9	0.4	0.6	3.1	10.1	7.4	16.5	(D)	AA	(D)
394	Toys and sporting goods -----	E1	69	15	1.9	18.4	1.5	2.9	12.5	45.0	29.9	72.3	(D)	1.2	19.4
3949	Sporting and athletic goods, n.e.c. -----	-	59	14	1.8	17.9	1.5	2.8	12.2	43.7	28.9	69.9	(D)	EE	(D)
399	Miscellaneous manufactures -----	E1	143	20	2.0	24.4	1.6	3.2	18.2	55.3	20.4	73.7	(D)	1.2	17.8
3993	Signs and advertising displays -----	-	70	13	1.3	18.3	1.1	2.3	14.0	42.4	12.6	53.2	2.2	0.7	11.1
3999	Manufacturing industries, n.e.c. -----	E5	60	5	0.5	4.9	0.4	0.7	3.3	9.9	5.3	15.0	(D)	0.3	3.7
-	Administrative and auxiliary -----	-	129	59	8.8	183.4	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
² Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.
³ Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Seattle-Tacoma SCSA -----	-	3 332	905	153.2	2 431.4	93.0	170.4	1 208.6	4 919.3	5 887.4	10 716.6	267.6	129.1	2 598.1
208	Beverages -----	-	21	11	1.3	20.4	0.7	1.4	10.4	61.9	104.9	164.4	10.7	(NA)	(NA)
2099	Food preparations, n.e.c. -----	-	26	6	0.5	6.8	0.4	0.6	3.7	25.0	33.1	57.4	(D)	(NA)	(NA)
242	Sawmills and planing mills -----	-	104	34	5.1	71.9	4.6	8.8	60.5	133.4	236.2	366.7	19.4	(NA)	(NA)
243	Millwork, plywood, and structural members -----	-	123	43	4.7	61.8	4.0	7.5	48.7	111.1	164.3	272.4	3.8	(NA)	(NA)
2431	Millwork -----	E1	55	22	2.1	25.9	1.8	3.2	20.2	47.8	69.5	117.0	1.2	(NA)	(NA)
2434	Wood kitchen cabinets -----	-	41	10	0.8	10.2	0.6	1.2	7.5	14.6	14.4	28.5	0.4	(NA)	(NA)
249	Miscellaneous wood products -----	-	46	12	0.8	9.7	0.6	1.2	6.9	16.8	26.4	43.0	(D)	(NA)	(NA)
26	Paper and allied products ---	-	49	31	4.9	85.4	3.7	7.3	64.1	209.8	321.8	531.1	(D)	5.1	133.0
2752	Commercial printing, lithographic -----	E1	113	18	1.5	21.1	1.1	2.1	14.7	39.8	22.9	62.7	3.7	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Seattle-Tacoma SCSA—Con.														
28	Chemicals and allied products -----	-	80	24	1.8	27.2	0.9	1.8	12.8	107.6	111.9	218.1	12.1	2.0	59.6
32	Stone, clay, and glass products -----	E1	133	41	3.9	54.3	3.0	5.7	38.0	138.5	125.7	266.3	13.0	3.6	76.4
3273	Ready-mixed concrete --	E1	25	12	0.9	13.6	0.6	1.0	8.6	31.3	28.7	59.9	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	317	87	7.4	106.8	5.7	11.0	73.1	212.1	193.7	403.8	(D)	(NA)	(NA)
3441	Fabricated structural metal -----	-	36	22	1.7	32.0	1.3	2.6	22.1	50.6	42.8	95.0	2.2	(NA)	(NA)
3443	Fabricated plate work (boiler shops) -----	E3	19	7	0.6	10.0	0.5	1.0	6.3	18.5	14.7	33.1	(D)	(NA)	(NA)
3444	Sheet metal work -----	E1	40	9	0.7	10.1	0.6	1.1	7.4	23.8	21.3	44.6	1.1	(NA)	(NA)
	Portland, Oreg.-Wash., SMSA -----	-	2 440	724	99.4	1 392.1	67.9	126.4	815.4	2 951.6	3 623.4	6 544.8	235.4	85.4	1 596.9
20	Food and kindred products --	-	151	78	8.4	117.2	5.7	10.7	69.7	347.4	719.8	1 067.6	28.4	9.3	237.7
201	Meat products -----	E1	22	12	1.4	19.8	1.1	2.2	14.3	41.8	187.9	229.2	2.3	1.4	28.1
202	Dairy products -----	-	17	8	0.7	13.1	0.3	0.6	6.2	37.6	93.9	130.8	1.1	1.0	24.0
2026	Fluid milk -----	-	14	8	0.7	12.8	0.3	0.6	6.0	36.8	91.0	127.1	(D)	(NA)	(NA)
2037	Frozen fruits and vegetables -----	-	4	3	0.3	2.5	0.2	0.3	1.4	5.6	13.0	18.6	(D)	(NA)	(NA)
204	Grain mill products -----	-	13	10	0.6	9.1	0.4	0.7	5.4	30.8	86.5	118.1	0.9	0.8	22.4
2048	Prepared feeds, n.e.c. --	-	9	6	0.3	3.9	0.2	0.3	2.0	9.1	38.2	47.3	0.4	0.3	7.6
208	Beverages -----	-	14	10	0.9	16.4	0.4	0.8	7.4	59.3	69.1	127.7	8.3	1.1	44.8
2086	Bottled and canned soft drinks -----	-	7	6	0.4	6.6	0.1	0.2	1.8	16.1	12.3	28.4	(D)	0.5	11.5
209	Miscellaneous foods and kindred products -----	-	24	10	0.9	10.3	0.7	1.2	6.6	38.9	64.1	102.9	0.9	0.9	18.1
239	Miscellaneous fabricated textile products -----	E1	49	11	0.8	6.8	0.6	1.2	4.3	14.0	15.1	28.8	0.3	1.2	13.7
2391	Curtains and draperies --	E2	23	5	0.3	2.5	0.2	0.4	1.2	4.6	4.3	8.7	(Z)	0.3	1.6
24	Lumber and wood products --	-	360	95	9.5	122.6	8.2	15.6	98.1	327.3	410.2	728.0	24.2	9.3	156.7
2411	Logging camps and logging contractors -----	E2	131	10	1.3	17.9	1.2	2.0	14.4	28.6	44.4	71.4	3.2	1.4	15.4
242	Sawmills and planing mills -----	-	78	34	3.2	42.8	2.8	5.4	35.3	169.9	179.1	344.5	13.6	3.8	70.8
2421	Sawmills and planing mills, general -----	-	56	31	2.8	40.3	2.5	4.9	33.1	165.0	174.3	334.9	13.4	3.5	69.0
2426	Hardwood dimension and flooring -----	-	5	3	0.3	1.6	0.2	0.4	1.4	2.8	3.1	5.9	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members -----	-	92	30	3.1	41.3	2.6	5.1	33.0	88.5	123.9	210.4	4.4	3.0	56.3
2431	Millwork -----	E1	32	9	1.1	14.2	0.9	1.7	10.8	30.0	46.4	76.4	0.7	(NA)	(NA)
2434	Wood kitchen cabinets --	-	32	8	0.7	6.6	0.6	1.0	5.5	13.1	11.0	23.9	1.7	0.3	4.9
2435	Hardwood veneer and plywood -----	-	6	3	0.3	3.6	0.2	0.3	2.0	5.5	22.2	28.0	0.2	0.3	8.5
2436	Softwood veneer and plywood -----	-	5	3	0.6	11.4	0.6	1.4	10.9	26.9	29.7	54.7	1.4	(NA)	(NA)
2439	Structural wood members, n.e.c. -----	-	17	7	0.4	5.6	0.3	0.7	3.8	13.1	14.6	27.3	0.3	0.3	4.1
244	Wood containers -----	E3	13	4	0.3	2.3	0.3	0.5	2.0	3.7	6.5	10.1	0.2	(NA)	(NA)
245	Wood buildings and mobile homes -----	E1	8	4	0.4	5.0	0.4	0.8	3.5	10.0	15.1	25.0	0.4	(NA)	(NA)
2451	Mobile homes -----	E1	4	3	0.3	3.9	0.3	0.6	2.8	7.5	13.9	21.4	(D)	(NA)	(NA)
249	Miscellaneous wood products -----	E1	37	13	1.1	13.3	1.0	1.9	9.8	26.6	41.2	66.5	2.3	0.8	11.2
2491	Wood preserving -----	E1	7	5	0.3	4.6	0.3	0.5	3.5	8.3	24.6	32.8	0.6	(NA)	(NA)
2499	Wood products, n.e.c. --	E1	30	8	0.8	8.7	0.7	1.3	6.3	18.3	16.6	33.8	1.7	(NA)	(NA)
25	Furniture and fixtures -----	-	82	24	2.3	24.3	1.9	3.5	17.4	47.1	41.6	89.7	1.1	2.1	30.0
251	Household furniture -----	E1	44	13	1.5	14.8	1.3	2.4	10.9	27.9	26.5	54.8	0.7	1.7	24.5
2511	Wood household furniture -----	E1	23	4	0.7	6.1	0.6	1.1	4.7	11.1	8.0	19.4	0.4	1.1	14.7
2512	Upholstered household furniture -----	E1	14	8	0.7	7.1	0.6	1.1	5.3	11.4	12.8	24.4	(D)	0.5	6.3
254	Partitions and fixtures -----	-	21	6	0.5	5.2	0.4	0.7	3.8	10.2	9.1	20.2	0.3	(NA)	(NA)
26	Paper and allied products ---	-	41	25	6.5	112.4	5.1	10.3	84.1	273.2	432.1	706.0	24.5	6.7	155.4
2621	Paper mills, except building paper -----	-	4	4	3.4	66.1	2.6	5.2	48.1	171.1	208.1	380.9	17.0	3.5	97.1
264	Miscellaneous converted paper products -----	-	23	12	2.5	37.7	2.1	4.3	30.0	81.9	185.2	266.3	5.5	2.4	41.9
265	Paperboard containers and boxes -----	-	12	8	0.5	8.2	0.4	0.8	5.5	19.0	38.0	56.9	(D)	0.7	14.8
2711	Newspapers -----	-	30	10	2.0	25.9	0.7	1.2	9.2	60.0	31.5	91.6	2.1	1.7	35.8
275	Commercial printing -----	E1	199	24	1.8	24.6	1.3	2.3	16.5	44.9	33.5	78.0	2.5	1.3	22.2
2751	Commercial printing, letterpress -----	E4	100	7	0.5	5.1	0.4	0.7	3.5	8.6	6.0	14.6	(D)	0.3	4.7
2752	Commercial printing, lithographic -----	-	93	16	1.2	18.5	0.9	1.6	12.3	35.4	27.1	62.2	(D)	0.9	16.2
2761	Manifold business forms -----	E4	9	6	0.3	4.9	0.2	0.5	3.2	12.8	16.8	29.2	0.7	0.3	4.1
278	Blankbooks and bookbinding -----	-	9	6	0.4	4.2	0.3	0.6	3.3	7.9	2.9	10.7	0.3	(NA)	(NA)
28	Chemicals and allied products -----	-	83	29	1.8	25.4	1.0	1.9	12.0	94.9	118.4	212.8	8.3	1.5	48.9
281	Industrial inorganic chemicals -----	-	9	5	0.5	7.5	0.3	0.5	4.1	32.1	27.5	59.6	2.3	0.4	14.9
2851	Paints and allied products -----	E2	15	5	0.3	3.9	0.1	0.2	1.6	9.4	13.1	22.4	0.2	0.3	4.8

See footnotes at end of table.

Table 6. **Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.**

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Portland, Oreg.-Wash., SMSA—Con.														
28	Chemicals and allied products—Con.														
289	Miscellaneous chemical products -----	-	25	5	0.3	5.3	0.2	0.4	2.3	26.2	36.4	62.3	3.1	0.3	15.0
29	Petroleum and coal products -----	-	16	9	0.5	7.7	0.3	0.7	5.0	19.8	82.7	100.8	2.0	0.4	15.3
295	Paving and roofing materials -----	-	10	6	0.4	5.3	0.2	0.5	3.5	13.5	31.0	44.0	1.6	(NA)	(NA)
2952	Asphalt felts and coatings -----	-	7	5	0.3	4.5	0.2	0.5	3.0	10.5	27.5	37.7	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	73	27	1.9	20.9	1.5	2.9	13.5	48.3	47.1	94.5	3.0	1.2	18.2
3079	Miscellaneous plastics products -----	-	62	20	1.5	15.6	1.2	2.2	9.9	37.1	36.8	73.0	2.5	0.9	12.2
32	Stone, clay, and glass products -----	-	95	25	2.2	29.9	1.6	3.0	20.8	71.8	60.1	132.6	5.8	2.0	45.2
327	Concrete, gypsum, and plaster products -----	-	59	16	1.1	16.1	0.7	1.3	9.7	36.7	36.2	72.3	3.1	1.1	24.5
3272	Concrete products, n.e.c. -----	-	27	5	0.4	4.8	0.3	0.6	3.3	9.7	8.3	17.5	0.8	(NA)	(NA)
3273	Ready-mixed concrete --	-	27	11	0.7	10.4	0.4	0.7	6.0	25.3	25.3	50.7	2.1	0.6	13.6
33	Primary metal industries ----	-	54	25	6.5	105.5	4.9	9.2	74.7	299.7	376.5	671.6	37.2	5.9	116.5
332	Iron and steel foundries ---	-	16	13	3.3	48.5	2.3	4.4	32.1	110.9	41.4	152.6	3.6	2.4	41.5
336	Nonferrous foundries -----	E2	18	3	0.3	3.7	0.2	0.5	2.8	6.8	4.6	11.3	0.4	(NA)	(NA)
34	Fabricated metal products ---	-	273	87	9.0	118.5	7.0	13.1	81.9	264.7	265.8	523.8	12.6	6.8	130.2
341	Metal cans and shipping containers -----	-	5	5	0.5	8.4	0.4	0.8	6.4	33.8	52.0	82.6	0.3	0.4	18.0
3429	Hardware, n.e.c. -----	-	16	5	1.4	12.8	1.2	2.1	10.7	26.6	26.2	53.5	(D)	0.8	14.3
344	Fabricated structural metal products -----	-	115	35	3.0	43.5	2.2	4.2	27.8	84.5	98.0	180.1	4.8	2.3	40.4
3441	Fabricated structural metal -----	-	30	11	0.9	13.8	0.7	1.3	10.0	25.4	24.2	49.0	2.0	0.5	7.6
3442	Metal doors, sash, and trim -----	-	22	8	0.7	7.6	0.5	1.1	4.6	18.1	24.9	42.6	0.4	0.4	4.3
3443	Fabricated plate work (boiler shops) -----	-	16	8	0.7	10.6	0.6	1.1	7.4	20.4	22.8	42.1	1.1	0.3	5.9
3444	Sheet metal work -----	-	36	7	0.5	7.5	0.4	0.6	4.9	15.0	18.5	33.4	1.1	0.8	13.4
345	Screw machine products, bolts, etc. -----	E1	4	4	0.3	3.6	0.2	0.3	2.4	7.1	6.2	13.5	0.3	(NA)	(NA)
346	Metal forgings and stampings -----	-	16	6	0.4	6.2	0.3	0.6	4.3	11.4	11.8	23.1	0.8	0.3	5.0
347	Metal services, n.e.c. -----	-	35	10	0.7	7.9	0.6	1.1	5.8	14.6	5.0	19.6	0.8	0.4	4.7
3471	Plating and polishing ---	-	23	8	0.5	6.3	0.5	0.9	4.7	11.9	3.1	14.9	0.7	0.3	3.6
349	Miscellaneous fabricated metal products -----	-	56	16	1.2	15.9	0.9	1.7	10.9	32.4	45.8	77.6	1.5	0.9	16.7
3496	Miscellaneous fabricated wire products -----	-	15	4	0.3	3.2	0.2	0.4	2.2	8.8	11.8	20.5	0.4	(NA)	(NA)
35	Machinery, except electrical -	-	326	89	11.4	175.3	7.1	12.8	93.0	396.3	282.6	659.0	34.3	7.8	147.7
352	Farm and garden machinery -----	-	14	5	0.3	4.4	0.3	0.5	3.4	8.5	14.5	23.1	(D)	(NA)	(NA)
354	Metalworking machinery ---	E1	25	3	0.3	4.3	0.3	0.5	3.2	9.5	4.1	12.7	0.6	0.3	5.0
355	Special industry machinery -----	-	62	27	2.3	37.3	1.5	2.8	20.6	67.4	64.8	129.4	2.7	1.6	37.1
3553	Woodworking machinery -----	-	34	15	0.9	15.1	0.6	1.2	9.4	31.0	33.6	62.5	1.4	0.7	17.3
3554	Paper industries machinery -----	-	8	4	0.3	4.2	0.2	0.3	2.2	7.0	4.0	11.1	0.1	(NA)	(NA)
356	General industrial machinery -----	-	39	11	2.2	33.6	1.5	2.2	18.0	66.0	45.2	111.0	1.9	1.8	27.7
3569	General industrial machinery, n.e.c. -----	-	10	2	0.3	4.6	0.2	0.3	2.0	6.4	6.2	12.6	0.2	(NA)	(NA)
358	Refrigeration and service machinery -----	E1	16	7	0.4	5.3	0.3	0.5	3.5	16.4	13.2	29.7	0.3	0.3	6.4
359	Miscellaneous machinery, except electrical -----	E2	123	18	1.2	16.5	0.9	1.7	11.3	29.1	12.2	40.9	1.5	0.9	14.1
36	Electric and electronic equipment -----	-	109	31	3.5	40.2	2.4	4.9	22.7	98.3	84.6	179.7	6.6	3.3	53.6
361	Electric distributing equipment -----	-	11	5	0.3	4.6	0.2	0.4	2.6	20.2	15.1	33.9	0.2	0.3	6.8
366	Communication equipment -----	-	14	2	0.6	6.7	0.4	0.8	3.1	20.0	13.3	31.2	0.3	1.5	23.0
367	Electronic components and accessories -----	E1	27	9	1.0	9.9	0.7	1.7	6.1	19.1	9.6	28.4	(D)	0.7	9.5
369	Miscellaneous electrical equipment and supplies --	-	22	9	1.1	14.4	0.7	1.3	7.9	27.2	35.4	63.4	2.2	0.3	7.0
3691	Storage batteries -----	-	7	3	0.4	5.2	0.3	0.5	3.7	11.2	17.7	29.3	(D)	0.3	6.4
3699	Electrical equipment and supplies, n.e.c. ----	-	8	4	0.3	3.9	0.2	0.4	2.4	6.7	6.8	14.1	0.1	(NA)	(NA)

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			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Portland, Oreg.-Wash., SMSA—Con.														
37	Transportation equipment ---	-	120	33	7.8	112.7	6.4	10.6	84.6	193.2	285.4	511.2	14.4	6.1	139.7
371	Motor vehicles and equipment-----	-	54	21	3.4	44.7	2.8	4.5	32.5	88.3	177.7	261.7	4.6	3.1	88.3
379	Miscellaneous transportation equipment -	-	19	3	0.3	2.3	0.2	0.4	1.6	3.6	6.4	9.7	0.2	(NA)	(NA)
384	Medical instruments and supplies-----	E1	27	8	0.4	5.1	0.3	0.6	3.3	12.3	6.2	17.7	0.5	(NA)	(NA)
3841	Surgical and medical instruments-----	E1	11	7	0.3	3.6	0.2	0.4	2.2	8.6	4.0	12.4	0.4	(NA)	(NA)
394	Toys and sporting goods --	E1	24	4	0.3	2.8	0.2	0.4	2.0	7.5	7.2	14.7	0.5	0.4	4.6
--	Administrative and auxiliary --	-	67	35	4.7	89.4	-	-	-	-	-	-	-	(NA)	(NA)
	Richland-Kennewick SMSA --	-	107	31	8.5	129.3	5.5	11.0	69.5	342.6	256.5	596.2	63.9	5.9	147.0
20	Food and kindred products --	-	12	9	2.6	25.6	2.3	4.6	22.0	88.3	192.2	281.5	(D)	1.7	28.4
2037	Frozen fruits and vegetables-----	-	4	4	1.8	16.7	1.7	3.2	15.0	58.9	56.3	115.7	(D)	(NA)	(NA)
27	Printing and publishing -----	-	15	2	0.4	4.6	0.4	0.7	3.9	9.7	2.7	12.2	(D)	(NA)	(NA)
28	Chemicals and allied products-----	-	7	4	3.7	72.6	1.7	3.8	29.4	200.7	25.5	223.9	(D)	3.2	104.2
34	Fabricated metal products---	-	11	4	0.7	13.3	0.4	0.8	6.4	18.0	11.7	29.0	(D)	(NA)	(NA)
	Seattle-Everett SMSA -----	-	2 717	733	131.9	2 111.6	78.6	143.0	1 017.8	4 161.0	4 940.0	9 015.4	213.4	108.6	2 234.7
201	Meat products-----	-	16	5	0.8	11.9	0.7	1.3	9.9	25.8	85.9	111.7	(D)	0.9	23.7
203	Preserved fruits and vegetables-----	-	17	6	0.7	8.1	0.6	1.0	5.5	16.7	19.9	36.7	(D)	(NA)	(NA)
2037	Frozen fruits and vegetables-----	-	6	3	0.5	6.0	0.5	0.7	4.2	10.3	9.6	20.0	0.4	0.4	5.3
208	Beverages-----	-	18	10	1.1	17.1	0.6	1.1	8.4	48.3	93.1	139.0	10.5	0.9	22.6
2092	Fresh or frozen packaged fish-----	E2	22	13	0.9	9.6	0.8	1.5	7.2	31.4	133.0	164.2	1.5	0.7	14.5
2099	Food preparations, n.e.c.-----	-	19	4	0.4	4.7	0.2	0.4	2.1	17.7	22.4	39.4	0.9	0.3	7.0
239	Miscellaneous fabricated textile products-----	E1	64	16	1.1	8.9	0.9	1.7	6.3	16.0	21.2	36.9	0.9	0.8	8.9
242	Sawmills and planing mills-----	-	76	24	3.8	51.1	3.4	6.4	43.5	88.8	176.2	261.8	7.7	3.4	66.4
2421	Sawmills and planing mills, general-----	-	41	18	3.0	45.8	2.7	5.4	39.0	79.3	165.3	241.4	7.1	3.0	62.7
243	Millwork, plywood, and structural members-----	-	79	26	2.9	38.8	2.5	4.6	30.5	69.1	101.2	169.2	2.6	2.7	47.7
2431	Millwork-----	-	37	16	1.7	22.5	1.5	2.7	17.6	41.0	57.9	98.6	1.1	1.4	21.8
2434	Wood kitchen cabinets-----	E1	28	5	0.5	5.7	0.4	0.7	4.3	8.0	9.1	16.7	0.2	(NA)	(NA)
244	Wood containers-----	-	8	3	0.3	3.0	0.2	0.4	2.2	6.5	6.9	13.3	(D)	(NA)	(NA)
245	Wood buildings and mobile homes-----	E3	10	6	0.4	5.0	0.3	0.6	2.9	9.6	17.8	27.4	0.8	(NA)	(NA)
249	Miscellaneous wood products-----	-	32	6	0.4	4.9	0.3	0.6	3.5	8.3	12.3	20.4	(D)	0.5	6.0
251	Household furniture-----	E2	40	12	0.7	7.5	0.6	1.1	5.2	17.6	16.2	33.5	(D)	0.7	7.0
254	Partitions and fixtures-----	-	19	6	0.3	3.5	0.2	0.4	2.5	6.6	5.1	11.7	(D)	(NA)	(NA)
26	Paper and allied products ---	-	37	20	3.5	62.6	2.6	5.1	44.9	154.8	228.3	384.1	19.7	3.5	98.8
264	Miscellaneous converted paper products-----	-	22	9	1.5	23.3	1.2	2.3	17.2	69.7	101.8	171.8	1.9	(NA)	(NA)
2643	Bags, except textile bags-----	-	5	4	0.3	4.0	0.3	0.4	2.8	7.1	9.6	16.7	(D)	(NA)	(NA)
2653	Corrugated and solid fiber boxes-----	-	6	4	0.4	5.8	0.2	0.4	3.5	11.2	21.1	32.3	(D)	0.3	6.6
2752	Commercial printing, lithographic-----	E1	98	17	1.3	18.8	1.0	1.9	13.2	35.6	20.6	56.2	3.5	1.1	20.2
28	Chemicals and allied products-----	E1	65	17	1.0	15.2	0.5	1.0	6.2	55.2	61.0	115.3	6.4	1.0	27.7
2851	Paints and allied products-----	-	16	8	0.4	6.2	0.2	0.4	1.9	15.9	20.0	35.5	0.6	0.4	9.5
32	Stone, clay, and glass products-----	-	109	32	3.2	44.3	2.5	4.7	30.9	120.3	101.9	223.6	11.6	2.9	66.8
327	Concrete, gypsum, and plaster products-----	E1	56	21	1.3	20.5	0.9	1.7	13.2	47.2	40.4	87.2	4.4	1.6	32.3
3272	Concrete products, n.e.c.-----	E3	33	8	0.5	6.8	0.4	0.7	4.7	12.4	8.7	20.7	2.0	0.9	18.0
3273	Ready-mixed concrete-----	E1	19	9	0.7	10.7	0.5	0.7	6.5	25.4	20.1	45.4	2.2	(NA)	(NA)
329	Miscellaneous nonmetallic mineral products-----	E1	16	3	0.6	6.3	0.5	0.8	4.3	18.5	11.1	29.8	(D)	0.3	6.0
3325	Steel foundries, n.e.c.---	-	8	5	0.4	6.0	0.4	0.7	5.0	11.1	7.0	17.9	0.8	(NA)	(NA)
34	Fabricated metal products---	-	273	81	6.8	97.6	5.3	10.1	66.9	192.7	173.7	364.4	8.7	5.5	103.6
344	Fabricated structural metal products-----	E1	125	44	3.8	60.1	2.9	5.6	39.8	108.0	98.9	207.0	5.0	3.2	56.6
3441	Fabricated structural metal-----	-	29	20	1.6	28.6	1.2	2.3	19.7	43.9	38.7	84.1	2.0	1.4	24.4
3442	Metal doors, sash, and trim-----	-	25	7	0.8	10.3	0.6	1.2	6.1	21.8	23.6	44.8	(D)	0.6	11.5
3443	Fabricated plate work (boiler shops)-----	E3	18	7	0.6	10.0	0.5	1.0	6.3	18.5	14.7	33.1	(D)	(NA)	(NA)
3444	Sheet metal work-----	E1	32	8	0.6	9.1	0.5	1.0	6.6	20.9	18.6	39.1	1.0	0.6	10.4

See footnotes at end of table.

Table 6. **Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.**

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
		All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
		E ¹	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)					
	Seattle-Everett SMSA—Con.													
34	Fabricated metal products—Con.													
346	Metal forgings and stampings -----	E3	18	6	0.5	2.4	0.3	0.5	1.6	3.0	4.3	7.3	(D)	(NA)
3471	Plating and polishing -----	-	28	5	0.4	5.0	0.3	0.6	3.4	9.9	3.2	13.1	(D)	0.3
349	Miscellaneous fabricated metal products -----	E1	53	14	0.9	11.9	0.7	1.3	8.8	24.3	23.1	47.2	1.8	0.5
3553	Woodworking machinery -----	-	8	3	0.5	6.7	0.3	0.4	3.5	14.8	8.9	23.9	0.2	1.3
366	Communication equipment -----	-	38	16	2.4	33.6	1.0	1.9	9.8	58.9	37.3	92.4	4.6	(NA)
367	Electronic components and accessories -----	E4	30	3	0.3	3.4	0.2	0.4	2.0	6.0	3.2	9.2	0.2	(NA)
369	Miscellaneous electrical equipment and supplies --	-	23	5	0.5	8.0	0.3	0.5	3.4	20.1	10.6	30.6	0.3	(NA)
391	Jewelry, silverware, and plated ware -----	E1	22	6	0.3	3.5	0.2	0.4	2.2	7.7	6.1	12.9	(D)	(NA)
3911	Jewelry, precious metal -----	E1	18	6	0.3	3.4	0.2	0.4	2.2	7.4	5.8	12.2	(D)	(NA)
394	Toys and sporting goods --	-	40	8	1.3	14.1	1.1	2.2	9.6	32.7	21.9	52.2	1.1	0.8
3949	Sporting and athletic goods, n.e.c. -----	-	31	7	1.3	13.5	1.0	2.1	9.3	31.4	20.9	49.8	1.0	(NA)
	Spokane SMSA -----	-	447	132	16.0	226.6	11.6	21.9	151.2	551.4	744.0	1 281.0	50.0	12.2
242	Sawmills and planing mills -	-	13	7	0.5	5.6	0.5	0.9	4.7	10.2	17.6	28.2	(D)	0.3
243	Millwork, plywood, and structural members -----	-	29	11	0.8	7.7	0.7	1.2	6.0	15.0	28.0	42.9	0.4	(NA)
2431	Millwork -----	-	14	3	0.3	3.1	0.3	0.6	2.5	5.3	11.4	16.7	0.2	(NA)
26	Paper and allied products ---	-	6	5	0.3	3.5	0.2	0.3	2.1	9.4	9.1	18.4	(D)	(NA)
28	Chemicals and allied products -----	E1	14	3	0.3	3.7	0.2	0.3	1.5	9.3	10.0	18.8	0.8	(NA)
32	Stone, clay, and glass products -----	E1	23	9	0.7	9.6	0.5	0.9	5.9	21.7	20.0	41.4	(D)	0.5
34	Fabricated metal products ---	E1	46	14	1.1	14.1	0.7	1.3	8.1	39.6	43.7	83.4	2.0	0.6
3444	Sheet metal work -----	-	11	5	0.3	4.6	0.2	0.4	2.4	11.5	24.7	35.5	0.9	(NA)
	Tacoma SMSA -----	-	615	172	21.3	319.8	14.5	27.5	190.8	758.3	947.4	1 701.2	54.1	20.4
209	Miscellaneous foods and kindred products -----	-	17	6	0.4	3.5	0.3	0.5	2.6	9.8	16.5	26.2	0.8	0.3
2411	Logging camps and logging contractors -----	E1	83	6	0.8	11.6	0.7	1.3	9.9	33.4	34.6	67.9	2.7	0.9
242	Sawmills and planing mills -	-	28	10	1.4	20.7	1.2	2.4	17.0	44.6	60.0	104.8	11.7	1.0
243	Millwork, plywood, and structural members -----	-	44	17	1.8	23.0	1.5	2.9	18.2	42.0	63.1	103.2	1.2	2.2
2431	Millwork -----	E1	18	6	0.3	3.4	0.3	0.5	2.6	6.8	11.6	18.4	0.2	0.8
2434	Wood kitchen cabinets --	-	13	5	0.3	4.4	0.2	0.5	3.3	6.6	5.3	11.8	0.2	(NA)
249	Miscellaneous wood products -----	-	14	6	0.4	4.8	0.3	0.6	3.4	8.5	14.1	22.5	0.4	(NA)
26	Paper and allied products ---	-	12	11	1.4	22.8	1.1	2.2	19.3	55.1	93.5	147.0	(D)	1.6
32	Stone, clay, and glass products -----	E1	24	9	0.7	10.0	0.5	1.0	7.0	18.2	23.8	42.6	1.4	0.7
34	Fabricated metal products ---	-	44	6	0.6	9.3	0.5	0.9	6.3	19.4	20.0	39.4	(D)	(NA)
	Yakima SMSA -----	-	234	85	8.0	101.5	6.5	12.9	76.0	245.9	453.4	690.1	19.0	6.6
203	Preserved fruits and vegetables -----	-	18	12	1.4	15.6	1.3	2.6	13.8	42.6	77.7	118.7	3.0	1.3
2033	Canned fruits and vegetables -----	-	13	10	1.2	14.1	1.1	2.3	12.5	36.8	69.5	104.8	(D)	0.9
209	Miscellaneous foods and kindred products -----	E1	7	2	0.3	2.7	0.2	0.4	1.6	8.9	9.7	18.5	0.3	(NA)
2411	Logging camps and logging contractors -----	-	12	5	0.3	5.4	0.3	0.6	4.9	12.0	33.0	44.8	2.7	0.3
242	Sawmills and planing mills -	-	9	5	0.7	11.4	0.7	1.4	10.1	22.8	42.7	64.0	(D)	0.8
26	Paper and allied products ---	-	6	4	0.4	6.5	0.3	0.7	4.7	17.3	32.3	49.3	(D)	0.3

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
(Z) Less than 50 thousand dollars or hours; under 50 employees.
¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977											1972	
			All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
20	Adams County -----	-	12	3	0.9	5.8	0.7	1.5	6.7	19.7	43.6	53.3	0.1	(D)	(D)
	Benton County -----	-	66	21	5.5	108.5	3.9	7.8	53.8	289.0	108.4	394.0	(D)	4.5	127.5
	Food and kindred products --	-	6	5	1.1	11.5	1.0	2.0	9.9	46.4	52.7	99.7	(D)	0.7	13.2
28	Chemicals and allied products -----	-	7	4	3.7	72.6	1.7	3.8	29.4	200.7	25.5	223.9	(D)	(NA)	(NA)
20	Chelan County -----	-	82	24	2.9	41.7	2.4	4.8	32.2	196.7	163.0	365.2	10.4	1.5	27.0
	Food and kindred products --	-	9	7	0.5	5.2	0.4	0.7	3.9	15.7	28.3	41.2	(D)	0.5	7.2
	Lumber and wood products --	E1	26	4	0.6	6.9	0.5	1.1	6.0	8.8	16.0	25.0	0.9	0.5	8.8
24	Columbia County -----	-	251	40	4.5	50.9	3.8	6.5	47.9	157.6	188.4	344.3	34.4	3.5	66.9
24	Lumber and wood products --	E1	209	33	3.2	40.5	2.7	4.6	32.2	90.5	125.5	211.1	(D)	2.4	39.2
2411	Logging camps and logging contractors ----	E1	131	16	1.5	19.4	1.2	2.2	15.8	36.9	61.8	96.5	7.5	(NA)	(NA)
2429	Special product sawmills, n.e.c. -----	E1	62	14	0.9	8.7	0.8	1.1	6.7	17.6	21.7	38.8	1.2	(NA)	(NA)
24	Clark County -----	-	258	69	12.2	179.0	9.5	18.3	129.5	439.2	717.2	1 156.8	33.1	11.3	245.9
	Lumber and wood products --	-	82	20	2.3	30.4	2.0	3.8	25.0	67.3	83.7	150.4	3.1	1.9	33.2
	Sawmills and planing mills -	-	19	5	0.5	5.5	0.4	0.7	4.2	22.6	13.0	35.3	1.1	0.6	8.8
242	Millwork, plywood, and structural members -----	-	22	7	0.8	12.6	0.7	1.4	10.5	25.0	38.7	64.2	1.0	0.9	19.8
243	Paper and allied products ---	-	10	7	3.2	59.3	2.6	5.4	46.0	125.8	252.8	380.6	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	26	6	0.5	7.7	0.4	0.9	6.1	20.3	23.4	42.3	0.8	(NA)	(NA)
35	Machinery, except electrical --	-	29	4	0.9	14.5	0.6	1.2	8.8	18.7	22.2	40.2	0.6	0.7	16.6
24	Cowlitz County -----	-	166	56	12.4	212.5	10.0	19.3	153.8	490.4	799.0	1 287.2	146.8	11.8	293.4
	Lumber and wood products --	-	99	32	6.2	99.8	5.6	10.7	85.6	179.7	390.4	569.1	(D)	5.8	122.8
	Sawmills and planing mills -	-	20	13	2.3	38.9	2.1	4.0	34.4	45.2	115.9	161.5	(D)	3.2	83.6
2421	Sawmills and planing mills, general -----	-	11	9	2.1	37.2	1.9	3.7	33.0	42.4	113.6	156.6	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members -----	-	9	5	1.2	19.0	1.2	2.3	16.2	29.7	45.4	78.1	(D)	1.6	25.7
20	Franklin County -----	-	41	10	2.0	20.7	1.6	3.2	15.7	53.6	146.1	202.2	(D)	1.4	19.5
	Food and kindred products --	-	6	4	1.4	14.1	1.3	2.6	12.2	41.9	139.5	181.9	(D)	0.9	15.2
	Grant County -----	-	39	11	2.1	23.0	1.8	3.5	17.6	82.8	109.2	178.6	3.5	2.5	78.9
20	Food and kindred products --	-	10	8	1.9	20.5	1.7	3.2	16.1	76.9	105.1	168.6	(D)	1.5	29.4
24	Grays Harbor County -----	-	324	73	9.1	130.2	7.7	13.7	105.2	366.1	505.4	859.4	51.0	7.7	157.6
	Lumber and wood products --	-	262	55	6.4	87.9	5.6	9.9	73.7	257.5	361.9	611.8	(D)	5.2	101.2
	Logging camps and logging contractors ----	-	122	11	2.9	43.1	2.5	4.3	35.5	129.6	249.6	378.0	12.6	(NA)	(NA)
242	Sawmills and planing mills -	-	121	33	2.1	24.6	1.8	3.3	20.2	91.0	60.5	145.8	(D)	1.5	28.4
2421	Sawmills and planing mills, general -----	-	14	7	0.7	10.1	0.6	1.1	8.7	61.1	24.1	79.9	5.9	(NA)	(NA)
243	Millwork, plywood, and structural members -----	-	9	6	1.1	16.8	1.0	2.0	15.2	30.4	46.7	76.9	0.7	1.1	21.2
26	Paper and allied products ---	-	4	3	1.3	24.4	1.1	2.1	19.7	59.1	93.3	150.3	(D)	1.3	32.8
20	Jefferson County -----	-	56	3	0.8	12.9	0.7	1.4	11.6	32.7	33.4	66.3	(D)	1.0	21.9
	King County -----	-	2 212	619	110.5	1 786.9	63.4	115.5	819.5	3 313.6	3 796.9	6 951.7	169.7	89.4	1 840.9
	Food and kindred products --	-	164	71	8.5	121.2	5.9	11.3	75.1	309.0	700.3	1 002.8	29.2	7.5	173.7
202	Dairy products -----	-	18	12	1.1	21.7	0.6	1.2	11.3	48.4	191.8	239.6	2.7	(NA)	(NA)
204	Grain mill products -----	-	12	5	0.5	8.4	0.4	0.8	6.1	21.6	87.4	107.2	1.2	(NA)	(NA)
209	Miscellaneous foods and kindred products -----	E1	59	24	2.4	26.3	2.0	3.8	18.3	76.0	191.6	266.1	4.9	(NA)	(NA)
24	Lumber and wood products --	-	192	46	5.1	67.8	4.3	8.1	52.8	125.6	317.6	441.6	15.3	4.6	105.4
242	Sawmills and planing mills -	-	25	7	1.4	16.6	1.3	2.3	13.9	27.0	53.3	79.4	1.8	0.9	15.4
2431	Millwork -----	E1	22	12	0.8	10.2	0.6	1.1	6.7	18.1	29.8	47.5	0.5	(NA)	(NA)
25	Furniture and fixtures -----	E1	63	23	1.3	12.6	1.0	2.0	8.7	29.5	24.7	53.9	0.8	0.9	11.2
27	Printing and publishing -----	E1	327	43	5.6	81.3	3.2	5.2	45.5	145.5	67.6	212.8	8.6	5.0	89.3
2711	Newspapers -----	-	41	9	2.9	45.7	1.3	1.7	21.6	77.2	32.8	110.0	3.6	(NA)	(NA)
275	Commercial printing -----	E1	199	20	1.8	24.5	1.4	2.5	17.2	46.2	26.0	72.1	4.1	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	-	78	20	1.7	19.9	1.2	2.4	12.0	48.9	36.6	83.9	2.0	0.9	13.6
32	Stone, clay, and glass products -----	-	85	28	2.8	39.0	2.1	4.1	27.4	109.8	95.3	206.5	(D)	(NA)	(NA)
327	Concrete, gypsum, and plaster products -----	E1	40	19	1.2	18.6	0.8	1.5	12.1	44.1	37.5	81.0	(D)	(NA)	(NA)
3273	Ready-mixed concrete --	E1	14	9	0.7	10.3	0.4	0.7	6.2	24.8	18.8	43.6	2.1	(NA)	(NA)
3443	Fabricated plate work (boiler shops) -----	E3	14	6	0.5	8.4	0.4	0.8	5.3	15.0	11.6	26.4	0.7	(NA)	(NA)
3444	Sheet metal work -----	E1	24	6	0.5	7.5	0.4	0.8	5.5	12.6	13.8	26.0	0.8	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977											1972		
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	King County—Con.														
35	Machinery, except electrical --	E1	292	72	7.0	103.3	4.6	9.0	61.0	203.3	144.2	348.2	9.0	5.0	91.5
355	Special industry machinery -	-	33	8	0.9	12.9	0.5	1.0	7.0	27.0	17.5	45.2	1.3	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E2	146	26	1.7	23.3	1.3	2.6	16.1	41.6	19.5	60.2	2.5	1.4	19.3
36	Electric and electronic equipment -----	-	137	40	4.2	57.2	2.2	4.3	22.7	107.1	73.2	176.5	5.9	(NA)	(NA)
3662	Radio and TV communication equipment -----	-	28	11	1.7	25.8	0.6	1.2	6.7	44.1	22.1	62.7	(D)	(NA)	(NA)
37	Transportation equipment - - -	-	122	40	49.2	916.6	23.0	39.6	336.3	1 650.0	1 790.1	3 302.5	(D)	40.6	949.5
39	Miscellaneous manufacturing industries - - - - -	E1	129	21	2.2	23.4	1.7	3.3	15.6	51.9	32.2	80.8	1.6	(NA)	(NA)
-	Administrative and auxiliary - -	-	51	28	4.4	93.2	-	-	-	-	-	-	-	(NA)	(NA)
	Kitsap County - - - - -	-	73	11	1.3	19.8	0.8	1.4	8.2	35.3	25.0	59.3	1.1	0.7	15.1
	Kittitas County - - - - -	-	54	6	0.8	10.7	0.7	1.3	9.0	23.2	90.5	113.5	1.3	2.0	47.2
20	Food and kindred products - -	-	8	3	0.5	7.2	0.5	0.9	6.3	15.0	82.4	97.3	(D)	1.7	42.8
	Klickitat County - - - - -	-	56	11	1.5	23.4	1.3	2.4	18.7	56.0	94.5	152.8	4.0	1.6	36.9
242	Sawmills and planing mills -	-	9	4	0.6	9.4	0.6	1.1	8.1	22.5	28.2	49.8	2.1	0.7	13.8
2421	Sawmills and planing mills, general -----	-	9	4	0.6	9.4	0.6	1.1	8.1	22.5	28.2	49.8	2.1	(NA)	(NA)
	Lewis County - - - - -	-	195	52	4.8	66.9	3.9	7.7	51.0	144.6	308.6	454.9	23.9	4.8	86.9
24	Lumber and wood products - -	-	140	36	3.6	51.2	3.1	6.2	43.0	117.7	245.9	366.4	21.4	3.7	71.3
2411	Logging camps and logging contractors - - - - -	-	90	12	1.5	25.1	1.3	2.7	21.8	63.9	142.1	208.4	14.4	(NA)	(NA)
242	Sawmills and planing mills -	-	36	15	1.2	15.5	1.0	2.0	13.5	31.2	57.0	88.8	6.0	1.2	30.2
	Mason County - - - - -	-	97	13	2.3	34.9	1.7	3.1	23.5	59.4	91.2	151.0	7.2	2.1	32.9
24	Lumber and wood products - -	-	71	6	1.6	24.9	1.4	2.6	20.5	51.1	81.5	133.3	6.7	(NA)	(NA)
	Okanogan County - - - - -	-	54	9	1.6	27.0	1.4	3.7	22.9	40.9	50.0	88.2	7.2	1.7	31.2
24	Lumber and wood products - -	-	31	7	1.5	25.3	1.3	3.2	21.8	37.4	46.3	81.1	7.0	(NA)	(NA)
	Pacific County - - - - -	-	68	15	1.2	14.2	1.1	1.8	12.0	24.6	39.1	53.7	1.3	1.2	22.1
24	Lumber and wood products - -	-	44	8	0.8	11.0	0.7	1.2	9.6	19.5	30.9	50.5	1.0	0.8	18.5
242	Sawmills and planing mills -	-	18	7	0.7	9.5	0.6	1.1	8.3	16.2	29.4	45.7	0.8	(NA)	(NA)
	Pend Oreille County - - - - -	-	39	7	0.5	7.0	0.5	0.9	6.2	16.2	19.6	36.0	1.6	0.3	8.0
	Pierce County (Coextensive with Tacoma, Wash., SMSA; see table 6.)														
	Skagit County - - - - -	-	151	34	4.1	56.1	3.2	5.8	40.5	114.0	866.1	981.3	11.7	4.4	98.6
24	Lumber and wood products - -	E1	79	13	1.4	17.4	1.2	2.1	14.2	44.3	43.8	88.2	2.8	1.4	23.3
242	Sawmills and planing mills -	-	37	7	0.6	7.8	0.6	1.0	6.6	17.2	20.7	37.6	1.7	0.6	7.0
	Skamania County - - - - -	-	25	6	0.9	11.2	0.8	1.4	9.7	17.1	24.8	42.5	2.5	0.9	12.7
24	Lumber and wood products - -	E1	20	6	0.8	11.1	0.8	1.4	9.6	16.9	24.7	42.1	2.5	0.9	12.6
	Snohomish County - - - - -	-	505	114	21.4	324.7	15.2	27.4	198.2	847.4	1 143.1	2 063.7	43.8	19.2	393.9
242	Sawmills and planing mills -	-	51	17	2.4	34.6	2.1	4.2	29.7	61.8	122.9	182.4	5.9	2.5	51.0
2431	Millwork - - - - -	-	15	4	0.9	12.3	0.9	1.5	10.9	22.9	28.1	51.2	0.6	(NA)	(NA)
3728	Aircraft equipment, n.e.c. -----	-	7	4	0.8	12.8	0.5	1.1	6.2	19.5	7.7	25.6	1.1	(NA)	(NA)
	Spokane County (Coextensive with Spokane, Wash., SMSA; see table 6.)														
	Stevens County - - - - -	-	94	16	1.7	25.9	1.5	3.0	21.0	46.0	86.6	130.1	14.8	1.0	18.4
24	Lumber and wood products - -	-	75	11	1.2	16.0	1.0	2.1	13.7	38.6	62.3	100.4	(D)	0.9	17.7
242	Sawmills and planing mills -	-	18	8	0.7	8.6	0.6	1.2	7.6	19.6	24.3	43.1	(D)	(NA)	(NA)
	Thurston County - - - - -	-	125	29	3.4	46.0	2.6	5.0	33.5	132.4	214.8	346.0	11.3	2.5	64.8
243	Millwork, plywood, and structural members - - - - -	-	12	5	0.6	6.6	0.5	1.1	5.6	20.2	20.6	40.4	(D)	(NA)	(NA)
2436	Softwood veneer and plywood -----	-	3	3	0.5	5.8	0.5	1.0	5.0	17.0	16.6	33.2	(D)	(NA)	(NA)
	Walla Walla County - - - - -	-	62	16	2.2	27.9	1.6	3.1	19.2	77.8	90.2	165.5	(D)	1.9	47.6
20	Food and kindred products - -	-	11	5	0.8	9.0	0.7	1.3	6.5	29.4	24.5	53.9	0.3	1.0	22.8
203	Preserved fruits and vegetables -----	-	4	3	0.7	7.8	0.6	1.2	6.0	25.5	19.9	45.5	(D)	0.9	21.5
	Whatcom County - - - - -	-	183	41	5.4	103.5	4.9	9.5	71.9	280.5	958.9	1 249.2	53.7	4.9	135.7
20	Food and kindred products - -	-	29	12	0.8	8.4	0.7	1.3	7.0	50.1	83.6	133.3	0.8	0.6	9.6
24	Lumber and wood products - -	-	43	6	0.7	9.9	0.6	1.3	8.4	18.4	31.7	49.8	1.6	0.7	11.7
	Yakima County (Coextensive with Yakima, Wash., SMSA; see table 6.)														

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry		1977										1972		
			All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital ex- penditures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
		E ¹													
242 2421	Aberdeen -----	-	81	18	1.7	25.1	1.4	2.7	20.0	98.6	85.1	158.8	7.6	1.5	34.2
	Sawmills and planing mills -	-	19	7	0.6	9.5	0.6	1.1	8.1	61.1	21.8	77.8	5.7	(NA)	(NA)
	Sawmills and planing mills, general -----	-	8	4	0.5	7.9	0.4	0.8	6.7	57.9	18.1	70.8	(D)	(NA)	(NA)
	Auburn -----	-	66	11	0.9	10.3	0.7	1.2	6.7	44.5	26.1	54.5	1.8	0.8	11.6
	Bellevue -----	-	127	27	3.0	51.0	1.5	2.0	18.4	59.9	117.6	176.1	10.4	1.8	40.1
20	Food and kindred products --	-	11	6	0.7	9.4	0.4	0.9	5.4	25.0	76.8	100.7	7.2	(NA)	(NA)
-	Administrative and auxiliary --	-	8	5	0.8	20.7	-	-	-	-	-	-	-	(NA)	(NA)
	Bellingham -----	-	87	19	2.8	43.3	2.1	4.2	32.0	156.7	146.2	301.2	(D)	(D)	(D)
	Centralia -----	-	40	11	1.1	11.7	0.7	1.4	6.9	22.2	23.2	45.1	1.1	0.8	8.6
	Chehalis -----	-	65	20	2.0	30.5	1.6	3.2	23.9	67.4	202.9	272.9	12.4	1.8	34.1
24	Lumber and wood products --	-	34	11	1.3	21.5	1.1	2.4	18.6	52.0	147.4	202.9	10.4	1.4	25.9
	Colville -----	-	46	6	0.5	6.8	0.5	0.9	5.7	13.4	16.2	28.9	(D)	(NA)	(NA)
	Everett -----	-	116	42	7.7	123.8	5.8	11.1	89.1	252.5	373.0	824.9	27.2	13.5	301.3
24	Lumber and wood products --	-	25	8	2.4	37.2	2.2	4.2	32.5	67.7	125.9	193.5	4.0	3.1	72.5
34	Fabricated metal products ---	-	8	4	0.5	6.4	0.4	0.8	4.6	13.2	15.3	27.8	0.5	(NA)	(NA)
35	Machinery, except electrical --	-	12	3	0.8	14.6	0.5	0.9	7.3	20.4	14.5	33.9	1.0	(NA)	(NA)
	Hoquiam -----	-	88	24	3.7	55.7	3.1	5.4	44.9	140.6	230.2	364.3	27.7	3.2	51.6
24	Lumber and wood products --	-	74	18	2.2	31.5	2.0	3.3	26.1	92.4	146.6	235.7	(D)	1.6	19.1
	Kennewick -----	-	30	4	0.8	10.7	0.7	1.3	8.3	38.2	35.0	71.5	3.2	(NA)	(NA)
	Kent -----	-	125	48	4.5	64.0	2.9	5.6	32.1	128.9	155.4	279.9	5.0	2.6	45.9
34	Fabricated metal products ---	-	15	9	1.0	14.4	0.8	1.6	11.1	38.9	41.1	78.6	0.7	0.5	10.7
35	Machinery, except electrical --	-	25	7	0.8	10.8	0.4	0.9	3.8	22.3	10.7	32.1	0.9	0.7	12.3
	Kirkland -----	-	40	12	1.1	15.2	0.8	1.5	7.8	31.2	38.6	68.9	2.2	0.7	12.0
	Lynnwood -----	-	45	7	0.6	7.4	0.4	0.9	4.8	15.5	11.7	26.8	1.1	(NA)	(NA)
	Marysville -----	-	36	6	1.1	13.3	0.9	1.7	9.8	23.5	34.1	56.7	1.6	0.7	11.6
	Monroe -----	-	30	4	0.6	2.7	0.4	0.6	1.9	12.3	27.7	39.9	0.6	(NA)	(NA)
	Olympia -----	-	89	23	2.8	39.6	2.2	4.2	28.7	121.9	195.5	316.4	11.0	1.9	55.8
	Othello -----	-	7	3	0.8	8.6	0.7	1.5	6.6	19.3	43.3	62.5	(D)	(D)	(D)
2411	Port Angeles -----	-	86	15	2.0	28.0	1.7	3.0	21.8	88.5	97.1	163.9	21.1	2.1	44.4
	Logging camps and logging contractors ----	E1	46	6	0.5	7.0	0.5	0.8	5.8	12.8	26.5	37.9	2.5	(NA)	(NA)
	Puyallup -----	-	30	9	0.6	5.6	0.5	0.9	4.3	11.2	13.5	24.3	1.0	(NA)	(NA)
	Raymond -----	-	17	6	0.6	9.2	0.5	0.9	7.9	15.3	27.5	43.0	0.7	(D)	(D)
	Richland -----	-	22	10	4.8	87.4	2.5	5.1	37.6	218.1	37.0	254.3	7.2	(D)	(D)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Seattle -----	-	1 270	372	61.2	985.8	34.5	64.5	442.4	1 804.7	1 748.0	3 637.4	83.2	54.9	1 097.7
20	Food and kindred products --	-	119	52	7.0	100.4	4.9	9.4	62.7	251.3	527.5	775.6	17.9	6.7	145.3
201	Meat products -----	-	8	3	0.7	9.9	0.6	1.1	8.4	20.3	65.6	86.0	1.2	(NA)	(NA)
202	Dairy products -----	-	9	7	0.8	15.4	0.4	0.7	7.4	29.7	104.6	134.1	1.3	(NA)	(NA)
208	Beverages -----	-	11	5	0.6	10.9	0.4	0.7	5.7	32.7	56.3	88.8	3.8	(NA)	(NA)
23	Apparel and other textile products -----	-	89	37	3.3	27.2	2.8	5.0	19.4	47.3	59.8	106.7	3.2	3.4	41.0
232	Men's and boys' furnishings -----	-	16	13	1.6	12.9	1.3	2.4	9.2	20.3	28.1	48.3	2.1	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	E1	47	15	1.0	8.3	0.9	1.5	5.8	14.9	19.4	33.9	0.9	(NA)	(NA)
24	Lumber and wood products --	-	45	11	1.2	15.8	1.0	1.9	12.1	29.1	50.6	79.7	1.2	1.3	23.0
25	Furniture and fixtures -----	E1	42	14	0.7	6.4	0.6	1.1	4.7	18.2	15.6	33.5	(D)	(NA)	(NA)
26	Paper and allied products --	-	20	8	0.8	11.0	0.5	1.0	6.8	22.1	28.5	50.4	1.1	(NA)	(NA)
264	Miscellaneous converted paper products -----	-	14	3	0.5	6.3	0.4	0.7	4.2	13.5	16.9	30.3	0.4	(NA)	(NA)
27	Printing and publishing -----	E1	232	35	4.5	70.3	2.6	4.1	39.4	123.0	57.9	180.7	7.5	4.2	76.8
2711	Newspapers -----	-	27	5	2.4	40.8	1.1	1.4	19.9	67.8	29.0	96.8	3.2	(NA)	(NA)
275	Commercial printing -----	E1	140	18	1.4	20.6	1.0	1.9	14.3	38.1	21.7	59.7	3.8	(NA)	(NA)
2752	Commercial printing, lithographic -----	-	66	15	1.0	15.9	0.8	1.4	11.1	29.4	17.6	46.9	3.3	(NA)	(NA)
28	Chemicals and allied products -----	E1	42	8	0.5	8.2	0.2	0.5	2.8	24.3	26.3	50.1	4.2	0.6	16.3
32	Stone, clay, and glass products -----	-	36	10	1.3	20.2	1.1	2.1	15.1	62.1	63.7	127.7	5.8	1.4	35.6
33	Primary metal industries -----	-	30	12	2.5	38.2	2.0	3.5	27.4	84.6	79.0	161.1	2.4	(NA)	(NA)
34	Fabricated metal products --	E1	137	46	3.2	52.8	2.5	4.8	34.5	92.0	73.0	165.9	5.2	3.8	70.4
344	Fabricated structural metal products -----	E1	57	25	1.8	33.3	1.3	2.6	20.8	51.9	40.3	93.4	2.5	(NA)	(NA)
3441	Fabricated structural metal -----	-	16	12	0.8	17.2	0.6	1.2	11.0	25.3	17.7	44.8	1.3	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	30	9	0.7	9.5	0.5	1.0	7.2	19.9	20.1	39.9	1.5	(NA)	(NA)
35	Machinery, except electrical --	E1	154	44	4.8	71.8	3.3	6.3	45.3	141.7	99.6	243.1	6.3	3.8	68.2
353	Construction and related machinery -----	-	23	12	1.6	26.2	0.9	1.8	14.3	57.3	48.6	106.4	2.4	(NA)	(NA)
3531	Construction machinery --	-	9	6	1.0	15.6	0.6	1.3	9.9	35.2	23.9	54.5	2.2	(NA)	(NA)
354	Metalworking machinery --	E2	14	4	0.5	7.9	0.4	0.7	5.8	11.4	5.1	16.9	0.1	(NA)	(NA)
355	Special industry machinery --	-	26	7	0.7	9.8	0.5	0.8	5.7	21.2	14.4	35.9	1.2	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E2	63	14	1.0	14.3	0.8	1.7	10.1	24.2	10.2	34.2	1.6	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E2	63	14	1.0	14.3	0.8	1.7	10.1	24.2	10.2	34.2	1.6	(NA)	(NA)
36	Electric and electronic equipment -----	-	61	20	2.2	31.6	1.1	2.1	11.9	53.2	36.5	87.4	2.7	1.4	26.0
366	Communication equipment --	-	14	5	1.2	19.9	0.4	0.8	4.9	32.2	16.1	45.7	2.2	(NA)	(NA)
373	Ship and boat building and repairing -----	-	36	12	4.9	82.9	4.3	8.8	66.1	188.6	78.0	266.4	4.2	(NA)	(NA)
38	Instruments and related products -----	-	28	8	1.5	19.4	0.9	2.0	9.9	48.1	18.9	66.1	(D)	0.7	11.6
39	Miscellaneous manufacturing industries -----	E2	73	16	1.3	12.5	0.9	1.7	8.3	26.8	17.1	42.8	0.8	(NA)	(NA)
399	Miscellaneous manufactures -----	E4	36	8	0.5	5.6	0.3	0.6	3.6	11.0	4.3	15.2	0.3	(NA)	(NA)
-	Administrative and auxiliary --	-	39	17	3.0	59.1	-	-	-	-	-	-	-	(NA)	(NA)
	Sedro-Woolley -----	-	35	5	0.9	14.3	0.7	1.3	10.5	24.9	29.7	54.6	2.8	1.1	16.0
	Shelton -----	-	84	13	2.2	34.7	1.7	3.0	23.3	58.8	90.5	149.7	7.2	(D)	(D)
	Sumner -----	-	24	9	0.6	6.9	0.4	0.8	5.2	13.6	19.9	33.2	(D)	0.7	10.2
	Tacoma -----	-	341	121	14.9	219.0	11.0	21.1	149.6	505.8	696.0	1 198.5	36.2	16.4	300.7
242	Sawmills and planing mills --	-	17	8	1.2	19.8	1.1	2.2	16.3	42.8	57.4	100.5	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members -----	-	24	10	1.4	18.7	1.2	2.3	15.1	32.6	52.4	83.3	0.6	(NA)	(NA)
-	Administrative and auxiliary --	-	10	6	0.5	10.3	-	-	-	-	-	-	-	(NA)	(NA)
	Toppenish -----	-	9	4	0.6	9.9	0.7	1.4	8.8	40.0	95.9	130.7	1.0	0.8	23.1
	Tukwila -----	-	36	16	0.9	12.6	0.6	1.3	7.3	28.3	34.6	62.9	1.3	(NA)	(NA)
	Vancouver -----	-	97	32	5.0	65.7	3.9	7.3	46.7	146.2	199.4	345.0	17.3	4.9	105.6
20	Food and kindred products --	-	9	6	1.3	12.6	1.1	1.9	10.0	47.5	81.4	128.3	(D)	(NA)	(NA)
24	Lumber and wood products --	-	20	6	0.7	10.5	0.6	1.3	8.9	19.2	24.9	44.4	0.8	0.6	12.4
243	Millwork, plywood, and structural members -----	-	11	3	0.5	8.5	0.5	0.9	7.5	15.5	22.5	38.3	(D)	(NA)	(NA)
	Walla Walla -----	-	49	10	1.3	16.2	1.0	2.0	10.7	45.1	40.6	83.4	1.3	(D)	(D)
	Yakima -----	-	125	47	4.4	59.2	3.4	7.0	42.3	129.6	210.5	336.6	12.1	3.1	69.0

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastic products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
WASHINGTON	6723	540	-	28	195	2113	144	95	711	137	26	151	19	293	110	478	642	205	343	86	278	129
1 TO 4 EMPLOYEES	3083	151	-	10	93	1078	64	11	424	45	5	52	6	139	32	204	296	100	152	45	147	29
5 TO 9 EMPLOYEES	989	63	-	3	11	344	16	10	98	24	1	27	2	35	16	69	118	29	58	8	35	22
10 TO 19 EMPLOYEES	939	85	-	6	25	262	19	7	90	28	5	22	5	44	10	81	199	23	44	16	49	19
20 TO 49 EMPLOYEES	809	94	-	6	32	208	22	14	63	22	5	25	4	34	10	71	64	25	38	13	27	31
50 TO 99 EMPLOYEES	430	65	-	1	17	108	18	13	17	9	4	17	1	26	13	29	32	14	19	1	15	11
100 TO 249 EMPLOYEES	301	49	-	1	12	75	5	20	14	6	-	1	-	13	13	20	25	10	16	1	12	11
250 TO 499 EMPLOYEES	108	29	-	1	5	26	-	9	3	1	5	1	-	1	8	3	6	2	4	-	1	3
500 TO 999 EMPLOYEES	40	4	-	-	-	8	-	8	1	1	1	-	-	1	4	1	2	2	4	-	2	1
1000 TO 2499 EMPLOYEES	19	-	-	-	-	3	-	3	1	1	-	-	-	-	4	-	-	-	4	-	2	1
2500 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	4	-	-	-
ADAMS COUNTY	12	3	-	-	-	-	1	-	2	-	-	-	-	1	-	-	4	-	1	-	-	-
1 TO 19 EMPLOYEES	9	1	-	-	-	-	1	-	2	-	-	-	-	1	-	-	3	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ASOTIN COUNTY	13	-	-	-	1	4	-	-	1	-	-	-	-	3	-	1	-	-	1	1	1	-
1 TO 19 EMPLOYEES	12	-	-	-	1	3	-	-	1	-	-	-	-	3	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BENTON COUNTY	66	6	-	-	3	1	2	-	11	7	-	1	-	11	1	5	7	3	2	2	2	2
1 TO 19 EMPLOYEES	45	1	-	-	2	1	-	-	10	3	-	1	-	9	-	3	6	2	2	1	2	2
20 TO 99 EMPLOYEES	10	1	-	-	1	-	-	-	-	1	-	-	-	2	-	1	1	1	-	-	-	-
100 TO 249 EMPLOYEES	6	2	-	-	-	-	-	-	1	2	-	-	-	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CHELAN COUNTY	82	9	-	-	3	26	-	2	10	3	-	2	-	6	3	3	10	-	3	-	2	-
1 TO 19 EMPLOYEES	58	2	-	-	2	22	-	2	8	2	-	1	-	5	1	2	9	-	3	-	2	-
20 TO 99 EMPLOYEES	17	6	-	-	2	2	-	-	1	1	-	-	-	1	-	1	1	-	-	-	-	-
100 TO 249 EMPLOYEES	6	1	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLALLAM COUNTY	251	5	-	-	2	209	-	2	9	-	-	-	-	-	6	3	7	1	3	1	2	1
1 TO 19 EMPLOYEES	211	4	-	-	2	176	-	-	8	-	-	-	-	-	5	-	7	1	2	1	1	1
20 TO 99 EMPLOYEES	33	1	-	-	-	28	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLARK COUNTY	258	11	-	1	2	82	8	10	20	10	-	10	-	13	6	26	29	7	5	1	13	4
1 TO 19 EMPLOYEES	189	5	-	-	1	62	6	3	17	8	-	5	-	10	2	20	25	5	5	1	12	2
20 TO 99 EMPLOYEES	42	1	-	-	13	13	2	3	2	2	-	4	-	3	1	5	2	2	2	1	1	1
100 TO 249 EMPLOYEES	14	2	-	-	6	6	-	-	1	-	-	1	-	-	-	1	1	1	-	-	-	-
250 EMPLOYEES AND OVER	13	3	-	1	1	1	-	3	1	-	-	-	-	-	2	-	1	-	-	-	-	-
COLUMBIA COUNTY	5	2	-	-	-	1	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	4	1	-	-	-	1	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
COWLITZ COUNTY	166	1	-	-	3	99	2	5	6	7	1	2	-	6	4	7	12	-	4	1	3	3
1 TO 19 EMPLOYEES	110	1	-	-	3	67	2	1	4	5	1	2	-	4	1	6	8	-	3	1	3	1
20 TO 99 EMPLOYEES	36	1	-	-	22	22	1	1	1	2	-	-	-	2	1	1	4	-	1	-	-	-
100 TO 249 EMPLOYEES	9	-	-	-	-	4	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	11	-	-	-	-	6	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOUGLAS COUNTY	8	2	-	-	1	1	-	-	1	-	-	-	-	-	1	1	1	-	-	-	-	-
1 TO 19 EMPLOYEES	7	2	-	-	1	1	-	-	1	-	-	-	-	-	1	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
FERRY COUNTY	19	-	-	-	-	17	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	16	-	-	-	-	14	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRANKLIN COUNTY	41	6	-	-	2	1	-	-	4	-	-	1	-	3	1	6	9	1	3	-	1	3
1 TO 19 EMPLOYEES	31	2	-	-	1	-	-	-	3	-	-	-	-	2	1	4	8	1	1	-	-	-
20 TO 99 EMPLOYEES	6	1	-	-	-	-	-	-	1	-	-	-	-	1	-	2	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GARFIELD COUNTY	3	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electrical and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

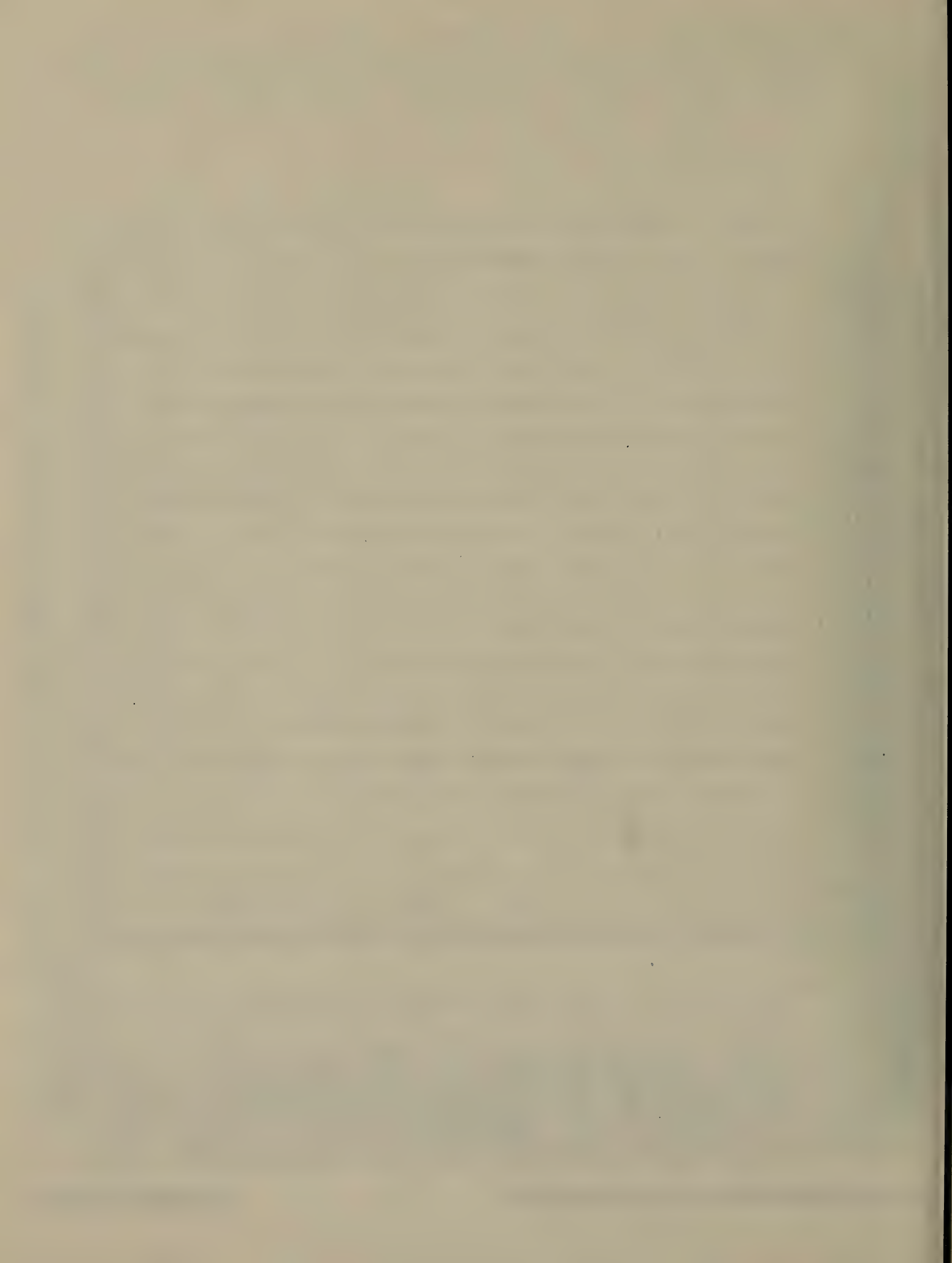
State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
GRANT COUNTY	39	10	-	-	1	4	-	-	7	1	-	-	-	3	-	5	7	-	-	-	1
1 TO 19 EMPLOYEES	28	4	-	-	1	4	-	-	5	1	-	-	-	3	-	4	7	-	-	-	1
20 TO 99 EMPLOYEES	7	2	-	-	-	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRAYS HARBOR COUNTY	324	16	-	1	-	262	-	4	8	1	1	-	-	2	2	5	10	-	4	-	3
1 TO 19 EMPLOYEES	251	11	-	1	-	207	-	1	7	-	-	-	-	1	1	5	8	-	3	-	2
20 TO 99 EMPLOYEES	56	3	-	-	-	44	-	-	1	1	1	-	-	1	1	1	1	-	1	-	1
100 TO 249 EMPLOYEES	8	2	-	-	-	5	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
250 EMPLOYEES AND OVER	9	-	-	-	-	6	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
ISLAND COUNTY	23	-	-	-	-	9	2	-	4	-	-	-	-	1	-	2	-	3	2	-	-
1 TO 19 EMPLOYEES	20	-	-	-	-	9	2	-	3	-	-	-	-	1	-	2	-	2	1	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JEFFERSON COUNTY	56	3	-	-	-	41	-	2	2	-	-	-	-	1	1	-	-	-	6	-	-
1 TO 19 EMPLOYEES	53	3	-	-	-	41	-	-	2	-	-	-	-	1	1	-	-	-	5	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
KING COUNTY	2212	164	-	15	108	192	63	30	327	62	10	78	11	85	41	231	292	137	122	54	129
1 TO 19 EMPLOYEES	1593	93	-	11	64	146	40	15	284	45	6	58	7	57	25	160	220	97	82	42	108
20 TO 99 EMPLOYEES	473	47	-	3	36	36	22	7	37	16	3	18	3	21	8	58	53	30	28	10	18
100 TO 249 EMPLOYEES	99	14	-	1	7	7	1	8	4	1	-	1	1	5	5	11	15	7	4	1	6
250 EMPLOYEES AND OVER	47	10	-	-	1	3	-	-	2	-	1	1	-	2	3	2	4	3	8	2	3
KITSAP COUNTY	73	3	-	1	2	18	2	-	11	1	-	1	-	7	-	4	6	1	9	1	3
1 TO 19 EMPLOYEES	62	2	-	1	2	16	1	-	10	1	-	-	-	6	-	4	6	1	8	1	2
20 TO 99 EMPLOYEES	8	1	-	-	1	1	1	-	1	-	-	-	-	1	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KITTITAS COUNTY	54	8	-	-	1	30	-	-	2	1	-	-	-	4	1	3	1	-	1	-	2
1 TO 19 EMPLOYEES	48	5	-	-	1	30	-	-	1	1	-	-	-	3	1	2	1	-	1	-	2
20 TO 99 EMPLOYEES	4	1	-	-	-	-	-	-	1	-	-	-	-	1	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Klickitat County	56	2	-	-	-	45	-	-	2	-	-	-	-	3	1	1	-	2	-	-	-
1 TO 19 EMPLOYEES	45	2	-	-	-	35	-	-	2	-	-	-	-	3	1	1	-	2	-	-	-
20 TO 99 EMPLOYEES	8	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LEWIS COUNTY	195	9	-	1	2	140	3	-	7	1	-	3	2	5	1	2	4	-	5	1	5
1 TO 19 EMPLOYEES	143	4	-	1	1	104	3	-	5	1	-	2	1	4	1	2	4	-	5	1	5
20 TO 99 EMPLOYEES	38	4	-	1	1	26	-	-	1	1	-	1	1	1	-	-	-	-	-	-	2
100 TO 249 EMPLOYEES	12	1	-	-	-	8	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
250 EMPLOYEES AND OVER	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LINCOLN COUNTY	10	1	-	-	-	3	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	9	1	-	-	-	3	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
MASON COUNTY	97	7	-	-	1	71	1	-	2	-	-	-	-	4	-	-	5	-	3	-	3
1 TO 19 EMPLOYEES	84	2	-	-	1	65	1	-	1	-	-	-	-	4	-	-	5	-	2	-	2
20 TO 99 EMPLOYEES	8	2	-	-	-	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	3	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OKANOGAN COUNTY	54	3	-	-	-	31	-	-	5	-	-	-	-	6	-	-	5	1	2	-	1
1 TO 19 EMPLOYEES	45	2	-	-	-	24	-	-	3	-	-	-	-	5	-	-	5	1	2	-	1
20 TO 99 EMPLOYEES	8	1	-	-	-	6	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC COUNTY	68	13	-	-	-	44	-	-	4	-	-	-	-	1	-	1	3	-	1	-	1
1 TO 19 EMPLOYEES	53	6	-	-	-	36	-	-	4	-	-	-	-	1	-	1	3	-	1	-	1
20 TO 99 EMPLOYEES	12	1	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PEND OREILLE COUNTY	39	1	-	-	-	30	-	-	2	-	-	-	-	1	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	32	1	-	-	-	3	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	6	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977-Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																									
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's					
PIERCE COUNTY	615	58	-	1	18	176	27	12	59	15	4	22	2	24	11	44	47	9	40	6	27	13					
1 TO 19 EMPLOYEES	443	34	-	1	13	133	19	1	53	8	1	13	2	15	5	38	34	8	33	4	23	5					
20 TO 99 EMPLOYEES	122	18	-	-	3	34	6	7	4	3	1	7	-	8	1	4	11	-	3	2	4	1					
100 TO 249 EMPLOYEES	30	4	-	-	3	3	2	2	1	1	-	2	-	1	1	2	2	1	3	-	-	2					
250 EMPLOYEES AND OVER	20	2	-	-	1	6	-	2	1	1	-	-	-	-	4	-	-	-	1	-	-	-					
SAN JUAN COUNTY	25	2	-	-	-	10	-	-	4	-	-	-	-	4	-	1	-	-	3	1	-	-					
1 TO 19 EMPLOYEES	25	2	-	-	-	10	-	-	4	-	-	-	-	4	-	1	-	-	3	1	-						
20 TO 99 EMPLOYEES	151	23	-	-	1	79	-	1	8	2	2	-	-	5	3	6	2	12	1	1	3						
100 TO 249 EMPLOYEES	117	14	-	-	1	66	-	-	6	1	-	-	-	4	3	5	1	1	9	1	3						
250 EMPLOYEES AND OVER	24	5	-	-	-	10	-	-	1	2	1	-	-	1	-	-	-	-	1	3	-						
SKAGIT COUNTY	124	5	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1 TO 19 EMPLOYEES	117	14	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
20 TO 99 EMPLOYEES	24	5	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
100 TO 249 EMPLOYEES	5	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
250 EMPLOYEES AND OVER	5	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
SKAMANIA COUNTY	25	-	-	-	-	20	-	-	1	-	-	-	-	1	-	1	1	-	-	-	-						
1 TO 19 EMPLOYEES	19	-	-	-	-	14	-	-	1	-	-	-	-	1	-	1	1	-	-	-	-						
20 TO 99 EMPLOYEES	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
100 TO 249 EMPLOYEES	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
250 EMPLOYEES AND OVER	3	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
SNOHOMISH COUNTY	505	27	-	1	15	170	14	7	42	3	1	9	1	24	6	42	52	16	41	7	21						
1 TO 19 EMPLOYEES	391	17	-	1	12	137	10	2	33	3	-	6	1	20	3	32	44	13	29	6	18						
20 TO 99 EMPLOYEES	80	8	-	-	3	21	4	1	8	-	-	2	-	3	3	7	5	2	7	1	3						
100 TO 249 EMPLOYEES	19	1	-	-	-	8	-	1	1	-	-	1	-	1	-	2	2	1	1	1	-						
250 EMPLOYEES AND OVER	15	1	-	-	-	4	-	3	-	-	-	-	-	-	-	1	1	-	4	-	-						
SPOKANE COUNTY	447	44	-	1	13	58	11	6	71	14	3	7	2	23	16	46	50	14	22	6	31						
1 TO 19 EMPLOYEES	315	25	-	-	10	37	8	1	62	11	1	5	1	14	6	32	40	11	16	5	24						
20 TO 99 EMPLOYEES	99	15	-	1	1	16	3	4	8	2	2	2	1	6	6	12	6	2	2	1	6						
100 TO 249 EMPLOYEES	25	4	-	-	1	5	-	1	1	-	-	-	-	3	2	2	3	1	3	-	1						
250 EMPLOYEES AND OVER	8	-	-	-	1	-	-	-	1	-	-	-	-	-	2	-	1	1	1	-	-						
STEVENS COUNTY	94	1	-	-	1	75	1	1	2	-	-	-	-	4	1	-	7	-	2	-	-						
1 TO 19 EMPLOYEES	78	1	-	-	1	64	1	1	-	-	-	-	-	3	-	-	5	-	2	-	-						
20 TO 99 EMPLOYEES	11	-	-	-	-	7	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-						
100 TO 249 EMPLOYEES	4	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-						
THURSTON COUNTY	125	14	-	-	3	57	3	3	15	-	-	4	-	4	-	5	6	1	5	-	3						
1 TO 19 EMPLOYEES	96	11	-	-	1	48	2	1	12	-	-	2	-	2	-	3	6	1	3	-	3						
20 TO 99 EMPLOYEES	19	1	-	-	2	5	1	1	2	-	-	2	-	2	-	1	1	-	2	-	1						
100 TO 249 EMPLOYEES	8	1	-	-	-	3	-	2	1	-	-	-	-	-	-	-	-	-	-	-	-						
250 EMPLOYEES AND OVER	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
WAKIACUM COUNTY	13	-	-	-	-	12	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-						
1 TO 19 EMPLOYEES	11	-	-	-	-	10	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-						
20 TO 99 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
WALLA WALLA COUNTY	62	11	-	-	1	10	1	1	9	-	-	1	-	4	1	4	8	3	3	-	1						
1 TO 19 EMPLOYEES	46	6	-	-	1	7	-	1	8	-	-	1	-	4	1	3	6	3	3	-	1						
20 TO 99 EMPLOYEES	9	3	-	-	-	3	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-						
100 TO 249 EMPLOYEES	5	1	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-						
250 EMPLOYEES AND OVER	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
WHATCOM COUNTY	183	29	-	6	4	43	-	2	14	2	3	2	-	12	4	10	17	4	20	1	9						
1 TO 19 EMPLOYEES	142	17	-	4	3	37	-	-	11	2	1	1	-	9	3	9	17	3	19	1	7						
20 TO 99 EMPLOYEES	25	10	-	2	1	5	-	-	12	-	-	-	-	1	-	1	1	1	3	-	2						
100 TO 249 EMPLOYEES	7	2	-	-	1	1	-	-	1	-	-	1	-	2	-	-	-	-	1	-	-						
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-	-						
WHITMAN COUNTY	20	1	-	-	-	-	-	-	7	-	-	-	-	2	-	1	5	-	2	2	-						
1 TO 19 EMPLOYEES	18	1	-	-	-	-	-	-	6	-	-	-	-	2	-	1	4	-	2	2	-						
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-						
100 TO 249 EMPLOYEES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
250 EMPLOYEES AND OVER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
YAKIMA COUNTY	234	45	-	-	6	38	3	6	22	7	1	8	1	11	5	15	30	2	14	-	13						
1 TO 19 EMPLOYEES	149	17	-	-	4	23	1	2	21	6	1	6	1	9	4	11	24	6	6	-	7						
20 TO 99 EMPLOYEES	61	18	-	-	11	1	2	2	21	-	1	2	1	2	1	4	6	-	5	-	3						
100 TO 249 EMPLOYEES	19	3	-	-	1	3	1	2	1	-	-	-	-	-	-	-	-	-	3	-	1						
250 EMPLOYEES AND OVER	5	7	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-						



West Virginia

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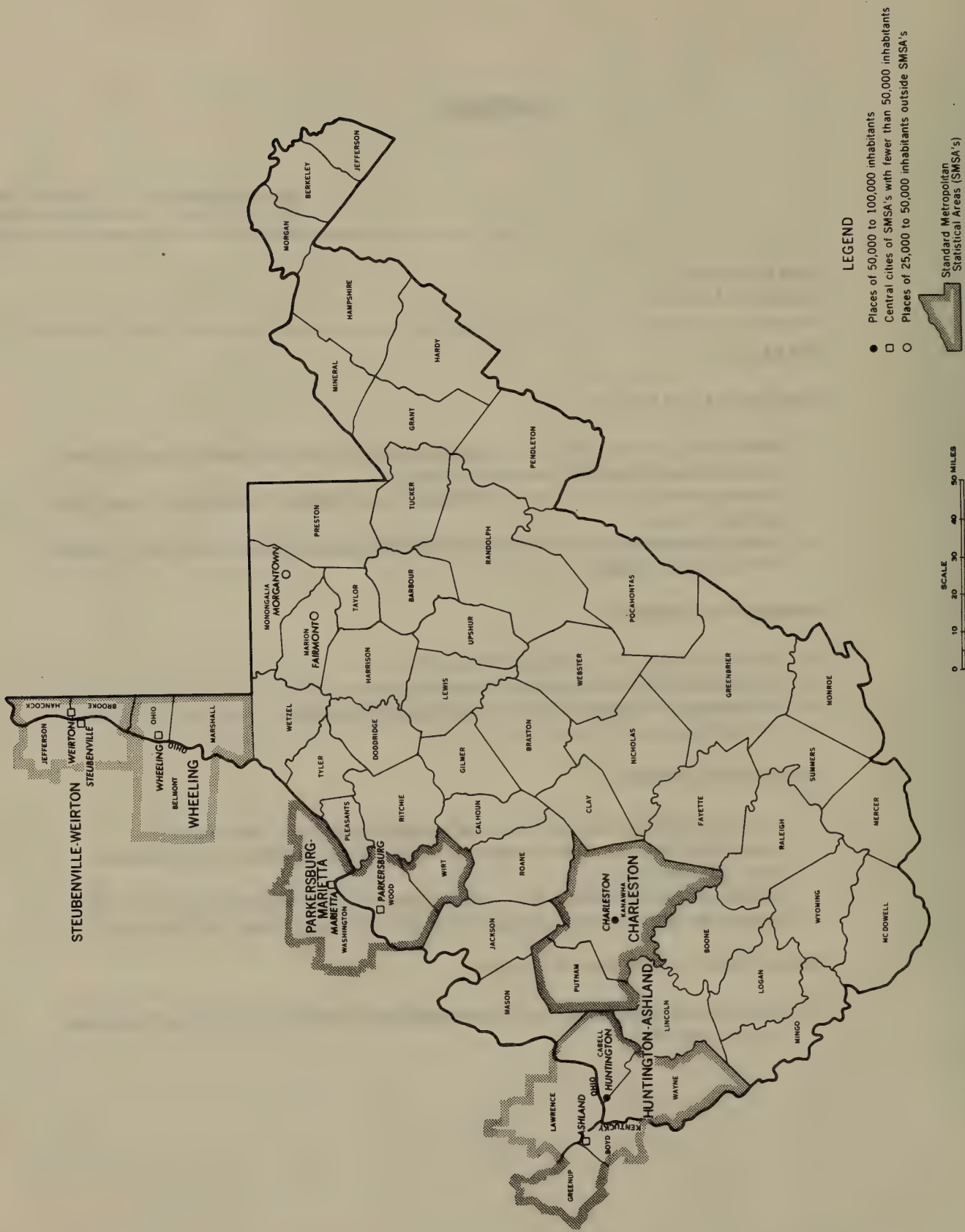
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WEST VIRGINIA



SUMMARY OF FINDINGS

In 1977, 117.0 thousand persons were employed in West Virginia's manufacturing establishments. This figure represented a decrease of 3 percent from the 1972 figure of 120.8 thousand workers.

The total value added by manufacture for the State amounted to \$3,880 million in 1977, an increase of approximately 46 percent from the 1972 figure of \$2,647 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were primary metal industries; chemicals and allied products; stone, clay, and glass products; and fabricated metal products. They accounted for approximately 59 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 57 percent of the State's employment.

The most important counties in the State ranked by employment were Hancock, Kanawha, Cabell, and Wood. They accounted for approximately 45 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 45 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 4 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
West Virginia:						
1977.....	117.0	1,620.5	114.3	1,568.4	2.7	52.1
1972.....	120.8	1,097.6	116.8	1,042.6	4.0	55.0
1967.....	124.0	831.6	120.8	801.0	3.2	30.6
1963.....	117.0	700.1	112.8	659.4	4.3	40.6
STANDARD METROPOLITAN STATISTICAL AREAS						
Charleston:						
1977.....	15.7	245.4	14.7	224.8	1.0	20.6
1972.....	16.2	167.8	15.5	154.3	.7	13.5
1967.....	20.9	166.7	19.6	152.5	1.3	14.2
1963.....	21.2	159.6	(D)	(D)	(D)	(D)
Huntington-Ashland, W. Va.-Ky.-Ohio:						
1977.....	29.6	438.8	29.4	436.3	.2	2.5
1972.....	25.7	254.4	24.2	237.5	1.5	16.9
1967.....	27.4	194.9	26.3	184.2	1.1	10.7
1963.....	23.6	145.7	(D)	(D)	(D)	(D)
Parkersburg-Marietta, W. Va.-Ohio:						
1977.....	15.8	222.4	-	-	-	-
1972.....	18.0	173.0	(D)	(D)	(D)	(D)
Steubenville-Weirton, Ohio-W. Va.:						
1977.....	26.7	497.6	26.5	494.7	.2	.
1972.....	29.0	329.3	27.8	312.9	1.2	16.4
1967.....	8.4	230.3	27.2	220.0	1.2	10.3
1963.....	28.6	206.0	(D)	(D)	(D)	(D)
Wheeling, W. Va.-Ohio:						
1977.....	13.0	173.5	(D)	(D)	(D)	(D)
1972.....	13.3	118.3	(D)	(D)	(D)	(D)
1967.....	16.3	106.6	15.6	100.4	.7	6.2
1963.....	15.6	92.9	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers							Comparative indexes and U.S. employment			
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	Index of State em- ploy- ment change (1977= 100)	United States	
														Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)
WEST VIRGINIA															
1977 CENSUS.	1 857	583	117.0	1 620.5	89.2	170.9	1 124.3	3 880.2	4 881.5	8 705.9	402.3	.60	100	100	19 596.9
1976 ASM....	(NA)	(NA)	120.0	1 520.8	89.0	168.6	1 023.9	3 557.7	4 478.2	7 937.6	288.8	.64	103	96	18 753.0
1975 ASM....	(NA)	(NA)	117.4	1 346.3	86.3	164.2	886.9	3 044.7	3 862.8	6 743.7	363.9	.64	100	94	18 302.2
1974 ASM....	(NA)	(NA)	126.9	1 337.6	96.6	186.9	915.8	3 320.1	3 680.9	6 893.4	299.6	.64	108	102	19 844.8
1973 ASM....	(NA)	(NA)	128.3	1 240.8	97.6	191.2	844.7	2 883.9	2 696.6	5 609.1	230.7	.64	110	102	19 897.9
1972 CENSUS.	1 733	606	120.8	1 097.6	92.7	181.8	765.4	2 646.7	2 389.3	5 021.9	216.0	.63	103	98	19 028.7
1971 ASM....	(NA)	(NA)	118.3	1 017.7	89.4	175.1	701.4	2 387.7	2 188.6	4 561.5	241.3	.64	101	94	18 363.1
1970 ASM....	(NA)	(NA)	122.4	989.3	92.2	183.0	674.7	2 317.5	2 164.3	4 470.8	251.9	.64	105	99	19 217.2
1969 ASM....	(NA)	(NA)	128.1	953.1	98.4	194.7	668.4	2 288.9	2 080.8	4 331.8	198.0	.64	110	103	20 035.5
1968 ASM....	(NA)	(NA)	123.3	878.2	95.4	190.3	621.2	2 220.4	2 031.7	4 264.3	210.6	.63	105	100	19 527.6
1967 CENSUS.	1 844	563	124.0	831.6	96.7	189.9	587.3	2 169.5	1 899.8	4 046.5	269.0	.64	106	99	19 323.2
1966 ASM....	(NA)	(NA)	124.6	806.5	97.4	194.8	574.3	2 146.9	1 855.3	3 982.9	249.3	.65	107	98	19 024.5
1965 ASM....	(NA)	(NA)	120.9	759.5	94.2	188.1	540.9	2 060.3	1 699.7	3 732.0	198.6	.67	103	92	18 010.2
1964 ASM....	(NA)	(NA)	119.2	737.0	90.7	182.6	516.6	1 875.6	1 606.9	3 483.9	180.3	.69	102	89	17 268.5
1963 CENSUS.	1 832	528	117.0	700.1	90.2	179.8	491.3	1 886.4	(NA)	(NA)	173.0	.69	100	87	16 958.4

(NA) Not available.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
WEST VIRGINIA									
1977 CENSUS.....	13 853	76	1 916	6.58	56	75	33 171	42	22.71
1976 ASM.....	12 673	74	1 894	6.07	56	76	29 648	43	21.10
1975 ASM.....	11 468	74	1 903	5.40	57	77	25 934	44	18.54
1974 ASM.....	10 541	76	1 935	4.90	53	73	26 163	40	17.76
1973 ASM.....	9 671	76	1 959	4.42	48	70	22 478	43	15.08
1972 CENSUS.....	9 086	77	1 961	4.21	48	69	21 910	41	14.56
1971 ASM.....	8 603	76	1 959	4.01	48	70	20 183	43	13.64
1970 ASM.....	8 083	75	1 985	3.69	48	71	18 934	43	12.66
1969 ASM.....	7 440	77	1 979	3.43	48	70	17 868	42	11.76
1968 ASM.....	7 122	77	1 995	3.26	48	68	18 008	40	11.67
1967 CENSUS.....	6 706	78	1 964	3.09	47	68	17 496	38	11.42
1966 ASM.....	5 473	78	2 000	2.95	47	67	17 230	38	11.02
1965 ASM.....	6 282	78	1 997	2.88	46	66	17 041	37	10.95
1964 ASM.....	6 183	76	2 013	2.83	46	67	15 735	39	10.27
1963 CENSUS.....	5 984	77	1 993	2.73	(NA)	(NA)	16 123	37	10.49

Note: For qualifications to data, see footnotes on table 2a.

(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹ -----	number -----	1 857	1 734
With 1 to 19 employees -----	do -----	1 274	1 127
With 20 to 99 employees -----	do -----	368	383
With 100 employees or more -----	do -----	215	224
All employees, average for year ¹ -----	1,000 -----	117.0	120.8
Payroll for year, all employees ¹ -----	mil. dollars --	1 620.5	1 097.6
Production workers:			
Average for year -----	1,000 -----	89.2	92.7
March -----	do -----	87.2	90.8
May -----	do -----	89.2	92.5
August -----	do -----	90.4	92.9
November -----	do -----	89.6	94.8
Hours -----	millions -----	170.9	181.8
January to March -----	do -----	40.9	45.0
April to June -----	do -----	43.7	45.5
July to September -----	do -----	43.2	44.9
October to December -----	do -----	43.0	46.4
Wages -----	mil. dollars --	1 124.3	765.4
Cost of materials, etc. ² -----	do -----	4 881.5	2 389.3
Materials, parts, containers, etc., consumed -----	do -----	4 246.7	2 094.4
Resales -----	do -----	130.7	89.8
Fuels consumed -----	do -----	253.3	87.9
Purchased electric energy -----	do -----	179.0	78.1
Contract work -----	do -----	71.7	39.0
Value of shipments, including resales ² -----	do -----	8 705.9	5 021.9
Value of resales -----	do -----	153.1	108.5
Value added by manufacture -----	do -----	3 880.2	2 646.7
Manufacturers' inventories:			
Beginning of year -----	do -----	1 325.1	689.7
Finished products -----	do -----	486.2	286.3
Work in process -----	do -----	378.3	178.7
Materials, supplies, fuel, etc. -----	do -----	460.6	224.7
End of year -----	do -----	1 389.4	686.5
Finished products -----	do -----	522.7	274.9
Work in process -----	do -----	402.6	196.5
Materials, supplies, fuel, etc. -----	do -----	464.0	215.2
Capital expenditures for plant and equipment -----	do -----	426.1	219.8
New capital expenditures -----	do -----	402.3	216.0
New buildings and other structures -----	do -----	50.9	41.9
New machinery and equipment -----	do -----	351.4	174.1
Used capital expenditures -----	do -----	23.8	3.7

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Including central administrative offices and auxiliaries (for definition, see appendix B).

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	33.8	6
Beginning of year.....	4,650.6	1	Buildings and other structures.....	11.4	7
New capital expenditures.....	408.7	2	Machinery and equipment.....	22.4	8
Used capital expenditures.....	24.1	5			
Retirements.....	179.2	2	Depreciation charges during 1977:		
End of year.....	4,904.3	1	Total.....	249.6	1
Buildings and other structures:			Buildings and other structures.....	31.4	2
Beginning of year.....	796.3	1	Machinery and equipment.....	218.2	1
New capital expenditures.....	53.3	6			
Used capital expenditures.....	2.0	9	Supplemental labor costs:		
Retirements.....	25.8	10	Total.....	365.8	1
End of year.....	825.7	1	Legal costs.....	116.7	1
Machinery and equipment:			Voluntary costs.....	249.2	1
Beginning of year.....	3,854.3	1			
New capital expenditures.....	355.5	2	Purchased services:		
Automobiles, trucks, etc., for highway use...	7.1	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	3.7	(NA)	Buildings and other structures.....	13.6	12
All other.....	250.1	(NA)	Response coverage ratio (percent).....	60	(X)
New machinery and equipment, n.s.k.....	94.6	(NA)	Machinery.....	54.7	10
Used capital expenditures.....	22.2	5	Response coverage ratio (percent).....	59	(X)
Retirements.....	153.4	2	Cost of purchased communication services.....	(9.5)	(A)
End of year.....	4,078.5	1	Response coverage ratio (percent).....	63	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

(A) Indicates standard errors of 100 percent or more. Figures in parentheses have standard errors of 15 percent or more. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area		1977											1972	
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
E1														
West Virginia-----	-	1 857	583	117.0	1 620.5	89.2	170.9	1 124.3	3 880.2	4 881.5	8 705.9	402.3	120.8	2 646.7
STANDARD METROPOLITAN STATISTICAL AREAS														
Charleston-----	-	205	66	15.7	245.4	10.9	21.6	156.7	725.7	932.4	1 647.8	125.8	16.2	603.9
Huntington-Ashland, W. Va.-Ky.-Ohio-----	-	339	125	29.6	438.8	20.9	40.9	288.1	754.3	1 982.8	2 728.9	233.7	25.7	530.1
Portion in Ohio-----	E1	52	16	3.1	40.9	2.5	5.1	31.7	83.4	144.8	229.1	15.7	3.2	76.0
Portion in West Virginia-----	E1	199	71	14.8	199.1	11.2	21.9	138.0	381.2	675.5	1 060.6	47.7	14.0	230.1
Portion in Kentucky-----	-	88	38	11.7	198.8	7.3	13.9	118.4	289.6	1 162.5	1 439.2	170.2	8.5	224.0
Parkersburg-Marietta, W. Va.-Ohio-----	-	182	63	15.8	222.4	11.2	21.7	139.7	724.9	779.3	1 479.2	85.3	18.0	482.2
Portion in Ohio-----	-	83	28	6.2	84.3	4.3	8.2	52.9	228.0	375.0	587.5	43.4	5.9	139.1
Portion in West Virginia-----	-	99	35	9.6	138.1	6.9	13.5	86.8	496.9	404.3	891.7	41.9	12.1	343.1
Steubenville-Weirton, Ohio-W. Va.-----	-	138	67	26.7	497.6	21.2	41.0	382.6	955.0	1 643.9	2 601.6	67.9	29.0	705.7
Portion in Ohio-----	-	68	28	7.9	147.4	6.2	11.9	113.6	400.6	657.4	1 058.9	21.2	9.3	263.7
Portion in West Virginia-----	-	70	39	18.7	350.3	15.0	29.1	269.0	554.4	986.5	1 542.8	46.7	19.7	442.0
Wheeling, W. Va.-Ohio-----	E5	156	68	13.0	173.5	9.8	17.9	117.2	427.3	552.0	978.6	40.3	13.3	202.8
Portion in Ohio-----	-	64	22	4.1	53.1	3.2	5.8	39.3	140.5	226.6	368.2	5.4	5.2	69.3
Portion in West Virginia-----	E8	92	46	9.0	120.4	6.6	12.1	77.8	286.9	325.3	610.4	34.9	8.1	133.5
COUNTIES														
Barbour-----	E5	18	2	0.2	1.3	0.2	0.3	0.9	2.6	3.7	6.3	(D)	0.2	1.3
Berkeley-----	-	33	18	3.6	41.3	2.7	5.4	27.1	117.7	96.3	212.1	4.9	3.3	83.4
Boone-----	-	12	1	0.2	1.9	0.2	0.3	1.6	5.2	7.5	12.7	0.3	0.1	1.8
Braxton-----	E1	17	4	0.2	1.7	0.2	0.4	1.5	2.8	5.1	7.9	0.3	0.3	2.2
Brooke-----	-	37	20	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.3	66.9
Cabell-----	-	150	57	13.1	179.6	9.9	19.4	125.7	329.2	616.4	951.2	(D)	12.1	209.1
Calhoun-----	E2	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Clay-----	E2	8	2	(Z)	0.3	(Z)	0.1	0.2	0.2	0.7	0.9	0.1	0.1	0.7
Doddridge-----	-	8	2	0.1	0.7	0.1	0.2	0.6	1.0	1.2	2.1	(D)	(D)	(D)
Fayette-----	-	39	7	1.6	22.2	1.2	2.4	15.6	37.4	57.8	89.8	2.3	(D)	(D)
Gilmer-----	E1	14	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Grant-----	E2	23	4	0.2	2.5	0.2	0.4	1.8	5.3	11.8	17.3	0.4	0.5	11.2
Greenbrier-----	-	42	10	1.7	14.5	1.4	2.4	9.6	31.8	30.1	62.4	1.3	0.8	12.4
Hampshire-----	-	14	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	4.9
Hancock-----	-	33	19	15.4	301.4	12.4	23.9	232.6	435.8	751.6	1 191.5	29.2	15.4	375.1
Hardy-----	-	19	4	1.0	7.1	0.9	1.7	5.8	20.9	27.5	48.2	(D)	1.5	14.1
Harrison-----	-	88	24	4.6	53.7	3.6	6.8	39.6	106.5	135.5	242.9	6.4	5.7	96.9
Jackson-----	-	16	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jefferson-----	-	25	8	1.2	13.2	1.0	1.7	9.3	79.3	43.3	121.2	3.3	1.5	18.3
Kanawha-----	-	184	60	14.3	227.0	9.7	19.2	141.9	697.9	875.2	1 562.8	123.4	14.7	577.4
Lewis-----	-	28	5	1.0	8.0	0.9	1.9	6.6	13.8	7.2	21.1	2.3	1.1	8.6
Lincoln-----	E3	14	1	0.2	1.0	0.1	0.2	0.8	1.5	0.7	2.2	(D)	(D)	(D)
Logan-----	E2	32	12	0.6	5.7	0.5	0.9	3.6	11.1	13.2	24.1	2.5	1.0	8.2
McDowell-----	-	10	4	0.4	7.9	0.1	0.2	0.7	2.0	2.3	4.3	0.2	0.3	3.2
Marion-----	-	78	26	5.5	67.4	4.3	8.2	50.2	146.5	137.5	284.6	10.8	5.7	103.4
Marshall-----	-	26	14	4.6	68.7	3.3	6.4	45.6	182.0	254.9	440.5	30.8	4.1	79.6
Mason-----	-	19	9	1.5	19.6	1.1	2.2	14.0	49.3	106.0	153.7	5.8	1.5	39.9
Mercer-----	-	71	19	2.1	26.3	1.5	3.1	16.6	67.4	49.0	113.1	7.4	2.6	39.1
Mineral-----	-	31	7	1.2	16.7	0.6	1.1	5.4	16.8	14.5	31.6	1.5	1.3	4.9
Mingo-----	E1	26	6	0.4	3.9	0.3	0.7	2.7	9.8	12.6	22.5	0.7	0.4	6.9
Monongalia-----	-	69	16	2.8	27.3	2.2	4.1	17.6	42.2	51.5	92.6	4.6	2.8	35.1
Monroe-----	-	12	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.1	0.2
Morgan-----	E1	11	3	0.1	1.5	0.1	0.2	1.1	4.2	2.7	7.1	(D)	0.1	1.1
Nicholas-----	-	38	10	0.9	8.2	0.7	1.3	5.2	19.9	13.4	34.2	0.6	1.3	13.8
Ohio-----	-	66	32	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.0	54.0
Pendleton-----	-	11	5	0.7	4.0	0.6	1.1	3.7	9.1	10.1	19.1	0.4	0.5	2.5
Pleasants-----	-	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pocahontas-----	-	19	7	0.5	4.1	0.5	0.8	3.7	7.7	19.7	27.2	1.0	0.4	4.5
Preston-----	-	34	9	1.0	8.7	0.9	1.7	7.4	22.1	16.9	37.7	2.0	1.1	12.4
Putnam-----	-	21	6	1.4	18.4	1.2	2.4	14.8	27.7	57.2	85.0	2.4	1.5	26.5
Raleigh-----	-	54	22	1.4	16.8	0.9	1.9	9.5	43.9	55.1	96.7	2.6	1.4	56.9
Randolph-----	E1	48	14	1.2	8.2	1.0	1.8	6.4	17.9	18.6	36.0	(D)	1.6	14.3
Ritchie-----	-	20	7	0.7	5.3	0.7	1.2	4.1	10.8	11.6	22.4	(D)	0.6	3.9
Roane-----	-	23	6	1.1	8.4	0.8	1.5	6.1	24.9	27.4	50.3	1.0	0.8	8.5
Summers-----	E2	14	2	0.1	0.8	0.1	0.1	0.5	2.0	1.6	3.7	0.1	(Z)	(NA)
Taylor-----	-	8	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	8.2
Tucker-----	E1	11	4	0.6	4.9	0.6	1.2	4.3	14.8	11.7	26.7	0.4	0.6	5.4
Tyler-----	-	14	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Upshur-----	-	36	8	1.0	10.7	0.8	1.6	8.2	31.4	31.7	61.8	1.6	1.0	23.5
Wayne-----	-	49	14	1.7	19.6	1.3	2.5	12.3	52.0	59.1	109.4	(D)	1.8	21.0
Webster-----	E2	21	5	0.2	1.4	0.2	0.3	1.1	2.3	2.3	4.7	(D)	0.2	1.8
Wetzel-----	-	24	7	1.6	21.6	1.2	2.2	14.5	80.8	46.9	128.1	(D)	2.4	72.6
Wirt-----	-	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wood-----	-	93	34	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wyoming-----	-	23	5	0.3	2.3	0.2	0.4	1.6	4.2	4.6	8.7	(D)	0.3	4.0
CITIES														
Beckley-----	-	30	14	1.0	10.9	0.6	1.1	5.4	26.7	41.2	67.1	1.9	0.6	9.4
Benwood-----	-	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Bluefield-----	-	23	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	21.3
Buckhannon-----	-	27	7	1.0	10.3	0.8	1.6	7.9	30.6	30.6	60.0	1.5	1.0	23.3
Charleston-----	-	89	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.1	243.4
Chester-----	-	12	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	13.9
Clarksburg-----	-	55	18	3.8	45.5	3.0	5.6	33.0	89.2	97.4	187.5	5.6	5.1	74.3
Elkins-----	E1	26	9	0.8	5.4	0.7	1.2	4.2	13.1	10.0	22.8	0.7	1.3	10.4
Fairmont-----	-	58	22	5.1	64.7	4.0	7.7	48.0	139.3	132.3	272.9	10.6	(D)	(D)

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972		
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)						
CITIES—Con.														
Huntington -----	-	125	53	12.9	177.6	9.8	19.2	123.8	327.0	609.0	941.5	20.4	12.0	201.3
Keyser -----	-	18	6	0.6	6.2	0.5	1.0	5.0	15.9	13.7	29.8	1.4	(NA)	(NA)
Kingwood -----	-	9	3	0.5	4.7	0.5	1.0	4.1	6.5	7.1	13.6	(D)	0.6	6.0
Martinsburg -----	-	30	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Morgantown -----	-	53	14	2.5	24.4	1.9	3.6	15.3	36.5	48.7	84.4	4.5	2.1	26.4
Moundsville -----	-	14	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
New Martinsville -----	-	13	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nitro -----	-	17	11	2.3	33.3	1.8	3.7	24.4	103.2	139.3	242.7	17.4	1.0	50.0
Parkersburg -----	-	59	20	3.4	38.9	2.4	4.4	23.6	92.7	68.6	164.3	4.1	5.4	103.3
Princeton -----	-	38	12	1.1	12.0	0.9	1.5	7.4	24.9	23.3	48.5	2.6	0.9	11.1
Ravenswood -----	-	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
South Charleston -----	-	20	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Vienna -----	-	10	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Weirton -----	E4	16	12	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Wellsburg -----	-	17	8	1.0	10.4	0.8	1.6	7.2	21.2	26.2	47.6	(D)	1.0	16.2
Weston -----	-	14	4	0.9	7.4	0.9	1.8	6.1	10.8	5.1	15.9	(D)	0.9	7.2
Wheeling -----	-	61	30	4.3	50.9	3.2	5.6	31.8	102.5	68.6	166.0	3.6	(D)	(D)
Williamstown -----	-	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	8.4

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

² Including central administrative offices and auxiliaries (for definition, see appendix B).

³ Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972	
			All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expen- ditures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
		E ¹													
	All Industries -----	-	1 857	583	117.0	1 620.5	89.2	170.9	1 124.3	3 880.2	4 881.5	5 705.9	402.3	120.8	2 646.7
20	Food and kindred products -----	E ¹	126	53	5.1	59.0	2.9	6.1	27.8	148.4	244.2	391.6	13.4	5.9	95.6
201	Meat products -----	E ²	28	9	0.9	7.9	0.7	1.4	5.4	17.6	60.8	78.3	(D)	CC	(D)
2011	Meat packing plants -----	E ⁴	23	4	0.3	3.5	0.2	0.5	2.3	6.0	34.7	40.6	0.1	CC	(D)
2016	Poultry dressing plants -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2017	Poultry and egg processing -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
202	Dairy products -----	-	16	9	0.9	11.9	0.3	0.7	3.6	21.6	55.3	76.8	3.9	1.0	14.8
2026	Fluid milk -----	-	15	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
203	Preserved fruits and vegetables -----	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2033	Canned fruits and vegetables -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
205	Bakery products -----	-	20	10	1.5	19.7	0.8	1.9	10.4	53.4	42.6	96.1	2.3	1.8	34.5
2051	Bread, cake, and related products -----	-	20	10	1.5	19.7	0.8	1.9	10.4	53.4	42.6	96.1	2.3	1.8	34.5
208	Beverages -----	E ²	36	20	1.2	13.7	0.5	1.0	4.0	40.8	49.8	90.1	4.2	1.4	21.8
2086	Bottled and canned soft drinks -----	E ²	36	20	1.2	13.7	0.5	1.0	4.0	40.8	49.8	90.1	4.2	1.4	21.8
209	Miscellaneous foods and kindred products -----	-	12	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972	
			All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
21	Tobacco products ----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2131	Chewing and smoking tobacco -	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
22	Textile mill products --	-	7	4	0.7	5.6	0.6	1.1	4.0	10.6	15.2	24.2	1.9	0.8	8.4
225	Knitting mills -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2253	Knit outerwear mills -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
23	Apparel and other textile products -----	-	63	34	5.4	34.7	4.8	7.9	26.8	60.8	44.6	105.4	(D)	5.2	33.4
2311	Men's and boys' suits and coats -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
232	Men's and boys' furnishings ---	-	9	8	1.5	9.9	1.4	2.2	7.5	18.6	10.3	28.7	(D)	1.5	9.3
2321	Men's and boys' shirts and nightwear -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2327	Men's and boys' separate trousers -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2328	Men's and boys' work clothing -----	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2329	Men's and boys' clothing, n.e.c. -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
233	Women's and misses' outerwear -----	-	30	17	2.3	13.6	2.1	3.6	11.1	22.4	15.3	37.9	(D)	EE	(D)
2331	Women's and misses' blouses and waists -----	-	6	5	0.7	4.1	0.6	1.1	3.2	7.8	6.3	14.1	(D)	CC	(D)
2335	Women's and misses' dresses -----	-	17	7	1.3	7.6	1.1	1.9	6.2	11.8	8.7	20.8	(D)	1.2	7.4
2337	Women's and misses' suits and coats -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2339	Women's and misses' outerwear, n.e.c. -----	-	5	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
234	Women's and children's undergarments -----	-	6	6	0.6	3.5	0.5	0.7	2.8	4.2	0.3	4.2	(D)	EE	(D)
2341	Women's and children's underwear -----	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2342	Brassieres and allied garments -----	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
239	Miscellaneous fabricated textile products -----	-	14	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2391	Curtains and draperies -----	-	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
24	Lumber and wood products -----	E2	465	67	5.1	39.9	4.6	8.5	32.1	88.0	101.5	187.4	(D)	6.0	59.8
2411	Logging camps and logging contractors -----	E3	177	5	0.7	5.7	0.7	1.0	5.0	10.3	14.4	24.7	(D)	0.8	6.3
242	Sawmills and planing mills ----	E2	218	45	2.6	19.2	2.4	4.6	16.0	42.4	44.5	87.5	(D)	3.0	33.5
2421	Sawmills and planing mills, general -----	E2	207	41	2.2	16.4	2.0	3.9	13.5	37.5	37.7	75.9	(D)	2.5	29.3
2426	Hardwood dimension and flooring -----	E1	9	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.4	3.8
243	Millwork, plywood, and structural members -----	-	17	5	0.7	5.7	0.6	1.2	4.4	14.6	14.1	28.1	(D)	1.5	13.2
2434	Wood kitchen cabinets -----	-	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2435	Hardwood veneer and plywood -----	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	3.1
244	Wood containers -----	E1	20	7	0.5	3.5	0.4	0.7	2.9	6.4	6.9	13.5	0.4	0.3	2.8
2448	Wood pallets and skids -----	E1	18	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.4
249	Miscellaneous wood products --	E5	30	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	3.9
2491	Wood preserving -----	E5	10	3	0.5	4.6	0.4	0.8	3.0	12.1	18.9	28.8	(D)	BB	(D)
25	Furniture and fixtures -	-	37	14	1.1	8.2	0.9	1.7	6.0	15.6	18.9	34.6	(D)	1.1	10.9
251	Household furniture -----	-	22	11	0.8	5.8	0.7	1.3	4.3	11.9	16.3	28.4	(D)	0.6	5.5
2512	Upholstered household furniture -----	E4	8	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	1.5
2514	Metal household furniture ---	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2515	Mattresses and bedsprings ---	-	5	4	0.2	1.6	0.2	0.3	1.0	3.3	6.5	9.8	(D)	0.2	1.9
26	Paper and allied products -----	-	28	18	1.6	15.6	1.2	2.3	10.8	35.5	43.0	78.7	1.3	1.7	27.4
2631	Paperboard mills -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
264	Miscellaneous converted paper products -----	-	15	7	0.7	6.7	0.5	1.0	4.3	17.4	19.0	36.7	0.4	CC	(D)
2643	Bags, except textile bags -----	-	7	4	0.3	2.8	0.2	0.4	2.2	7.6	13.2	20.9	0.2	0.3	4.7
2649	Converted paper products, n.e.c. -----	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
265	Paperboard containers and boxes -----	-	10	9	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	10.8
2653	Corrugated and solid fiber boxes -----	-	8	7	0.5	5.6	0.4	0.8	3.8	9.4	13.3	22.7	0.4	CC	(D)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972	
			All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
27	Printing and publishing -----	-	214	38	4.1	43.0	2.5	4.5	25.0	100.4	53.7	153.6	4.5	4.1	71.8
2711	Newspapers -----	-	95	21	2.6	26.3	1.4	2.4	13.2	63.5	18.1	81.6	2.8	FF	(D)
275	Commercial printing -----	E1	102	11	0.9	9.7	0.7	1.2	6.6	19.5	13.0	32.4	1.4	0.9	13.0
2751	Commercial printing, letterpress -----	E5	60	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2752	Commercial printing, lithographic -----	-	40	10	0.7	7.9	0.5	0.9	5.3	16.0	10.7	26.6	1.2	0.5	8.3
2761	Manifold business forms -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
28	Chemicals and allied products -----	-	73	39	19.3	332.6	13.8	28.3	219.3	1 324.6	1 473.6	2 774.9	218.8	20.9	949.8
281	Industrial inorganic chemicals --	-	20	5	1.2	19.2	0.7	1.5	11.5	104.0	68.0	171.6	5.4	1.5	56.9
2812	Alkalies and chlorine -----	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2813	Industrial gases -----	-	15	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	20.8
282	Plastics materials and synthetics -----	-	6	6	5.0	85.2	3.5	7.4	52.6	362.3	355.1	705.4	38.8	7.1	252.9
2821	Plastics materials and resins --	-	5	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2823	Cellulosic manmade fibers ---	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
283	Drugs -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2834	Pharmaceutical preparations --	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
286	Industrial organic chemicals ---	-	22	19	12.1	211.4	8.8	17.9	145.7	814.8	982.8	1 788.1	170.9	11.5	615.0
2861	Gum and wood chemicals -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2865	Cyclic crudes and intermediates -----	-	7	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2869	Industrial organic chemicals, n.e.c. -----	-	14	13	8.8	155.0	6.4	13.0	108.0	637.1	771.7	1 396.0	140.7	9.4	549.6
289	Miscellaneous chemical products -----	-	7	3	0.7	12.4	0.4	0.9	7.1	30.8	48.1	78.0	3.0	0.6	20.1
2892	Explosives -----	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
29	Petroleum and coal products -----	-	27	9	0.9	13.9	0.7	1.5	10.8	34.7	219.5	251.3	14.2	0.9	25.9
2911	Petroleum refining -----	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
295	Paving and roofing materials ---	-	22	4	0.2	2.8	0.2	0.4	2.2	7.6	16.8	24.3	3.1	0.3	5.3
30	Rubber and miscellaneous plastics products -----	E1	35	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3021	Rubber and plastics footwear --	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3069	Fabricated rubber products, n.e.c. -----	E1	11	7	0.8	7.2	0.7	1.4	5.2	16.6	13.0	29.1	0.6	CC	(D)
3079	Miscellaneous plastics products -----	E1	20	5	0.5	4.7	0.4	0.9	3.2	11.7	13.6	25.0	0.5	0.4	5.5
31	Leather and leather products -----	-	14	12	2.8	18.4	2.7	5.1	17.6	37.3	49.7	85.5	1.0	EE	(D)
3111	Leather tanning and finishing --	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
314	Footwear, except rubber -----	-	10	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3143	Men's footwear, except athletic -----	E1	4	4	1.4	9.0	1.4	2.5	8.5	19.9	20.6	40.3	(D)	CC	(D)
3144	Women's footwear, except athletic -----	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3149	Footwear, except rubber, n.e.c. -----	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
32	Stone, clay, and glass products -----	-	206	79	17.9	208.2	15.1	28.3	163.9	439.0	280.7	716.8	(D)	20.5	339.2
3211	Flat glass -----	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
322	Glass and glassware, pressed or blown -----	-	35	30	9.8	118.5	8.4	15.7	93.6	255.8	124.1	381.1	(D)	10.9	183.4
3221	Glass containers -----	-	5	5	3.2	46.9	2.8	5.6	39.8	94.2	57.6	154.1	(D)	4.2	70.0
3229	Pressed and blown glass, n.e.c. -----	-	30	25	6.6	71.6	5.5	10.1	53.8	161.6	66.5	227.0	(D)	6.7	113.4
3231	Products of purchased glass ---	-	23	7	1.1	11.0	1.0	2.0	9.2	17.5	21.5	38.9	(D)	0.8	11.2
3241	Cement, hydraulic -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
325	Structural clay products -----	-	8	5	0.6	7.3	0.5	0.9	5.7	15.1	10.8	25.7	(D)	CC	(D)
3251	Brick and structural clay tile --	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3255	Clay refractories -----	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
326	Pottery and related products ---	-	13	6	2.6	23.2	2.3	3.9	19.2	37.3	18.9	53.9	(D)	2.9	23.5
3262	Vitreous china food utensils --	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3264	Porcelain electrical supplies --	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
327	Concrete, gypsum, and plaster products -----	E1	104	19	1.2	14.0	0.9	1.7	9.0	31.5	44.3	76.1	(D)	1.6	26.1
3271	Concrete block and brick ---	E1	21	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3273	Ready-mixed concrete -----	E1	57	12	0.7	8.4	0.5	1.0	5.7	20.2	31.1	51.2	(D)	0.8	14.4
329	Miscellaneous nonmetallic mineral products -----	-	16	8	1.3	17.9	1.1	2.1	13.7	52.2	30.9	82.0	(D)	1.0	22.1
3293	Gaskets, packing, and sealing devices -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3295	Minerals, ground or treated --	-	10	3	0.2	3.5	0.2	0.4	2.7	9.0	3.6	12.5	(D)	0.2	4.2
3296	Mineral wool -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3297	Nonclay refractories -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
33	Primary metal industries -----	-	49	28	23.4	463.6	18.2	35.3	350.4	784.5	1 495.5	2 272.7	56.1	22.7	532.2
331	Blast furnace and basic steel products -----	-	15	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	15.7	399.9
3312	Blast furnaces and steel mills -----	-	6	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3313	Electrometallurgical products -----	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3317	Steel pipe and tubes -----	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
332	Iron and steel foundries -----	-	13	7	0.9	10.1	0.7	1.3	7.9	17.4	11.8	29.9	1.4	CC	(D)
3321	Gray iron foundries -----	-	11	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3322	Malleable iron foundries -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
333	Primary nonferrous metals -----	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3334	Primary aluminum -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
335	Nonferrous rolling and drawing -----	-	4	4	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3353	Aluminum sheet, plate, and foil -----	-	2	2	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3356	Nonferrous rolling and drawing, n.e.c. -----	-	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
336	Nonferrous foundries -----	-	9	2	0.2	2.6	0.2	0.4	1.9	4.2	3.3	7.5	(D)	(NA)	(NA)
3362	Brass, bronze, and copper foundries -----	-	8	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
34	Fabricated metal products -----	-	131	59	8.2	89.8	6.5	11.8	62.6	227.2	258.8	463.1	10.4	7.7	127.9
342	Cutlery, hand tools, and hardware -----	-	7	5	1.6	16.0	1.2	2.0	10.9	46.2	24.8	74.7	(D)	1.9	36.3
3423	Hand and edge tools, n.e.c. -----	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3429	Hardware, n.e.c. -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
343	Plumbing and heating, except electric -----	-	6	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3432	Plumbing fittings and brass goods -----	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
344	Fabricated structural metal products -----	-	58	26	2.0	25.7	1.5	2.8	18.0	59.8	96.6	158.2	3.4	2.2	38.2
3441	Fabricated structural metal -----	-	18	11	0.8	8.5	0.6	1.1	5.6	19.0	27.9	48.4	1.4	0.7	12.3
3443	Fabricated plate work (boiler shops) -----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3444	Sheet metal work -----	-	19	9	0.8	10.7	0.6	1.0	7.5	29.7	56.1	86.2	0.6	CC	(D)
346	Metal forgings and stampings -----	-	12	10	1.8	18.2	1.5	2.6	13.2	47.2	51.2	91.6	1.4	0.9	11.1
3465	Automotive stampings -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3466	Crowns and closures -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3469	Metal stampings, n.e.c. -----	-	8	6	0.8	7.2	0.6	1.1	4.9	13.1	14.8	27.6	0.6	CC	(D)
347	Metal services, n.e.c. -----	-	11	1	0.2	2.0	0.2	0.3	1.5	4.0	2.5	6.5	(D)	0.2	2.2
3471	Plating and polishing -----	-	10	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
348	Ordinance and accessories, n.e.c. -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	28	10	1.5	14.2	1.2	2.2	10.4	40.6	44.8	83.6	2.9	EE	(D)
3494	Valves and pipe fittings -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3498	Fabricated pipe and fittings -----	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3499	Fabricated metal products, n.e.c. -----	-	17	4	0.6	6.3	0.5	1.0	4.8	23.2	26.0	48.9	1.5	CC	(D)
35	Machinery, except electrical -----	E1	227	59	6.4	83.4	4.7	9.2	53.5	185.5	180.6	357.1	16.0	4.9	79.9
351	Engines and turbines -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3519	Internal combustion engines, n.e.c. -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
353	Construction and related machinery -----	-	67	24	3.7	48.6	2.6	5.1	29.8	119.5	130.6	242.6	11.2	2.1	43.6
3531	Construction machinery -----	E1	7	2	0.2	3.2	0.2	0.4	2.1	7.5	9.3	14.8	0.4	(NA)	(NA)
3532	Mining machinery -----	-	53	19	2.8	36.4	2.1	4.1	23.4	90.1	79.2	162.8	10.5	1.9	40.7
3533	Oil field machinery -----	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3535	Conveyors and conveying equipment -----	-	3	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
354	Metalworking machinery -----	E3	16	2	0.2	2.6	0.2	0.4	2.1	4.9	3.7	8.6	0.4	CC	(D)
356	General industrial machinery -----	E4	15	6	0.3	3.5	0.2	0.4	2.1	6.4	5.5	11.8	0.8	BB	(D)
358	Refrigeration and service machinery -----	-	11	3	0.5	6.1	0.4	0.8	3.8	14.5	14.4	28.4	(D)	CC	(D)
3581	Automatic merchandising machines -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
359	Miscellaneous machinery, except electrical -----	E4	111	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	18.1
3599	Machinery, except electrical, n.e.c. -----	E4	111	22	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	18.1

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
36	Electric and electronic equipment -	-	26	15	4.6	58.6	3.8	7.4	44.6	138.8	135.6	273.1	7.4	5.2	111.1
361	Electric distributing equipment -	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3612	Transformers -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
362	Electrical industrial apparatus -	-	9	5	1.0	15.2	0.8	1.5	11.7	33.6	39.0	74.0	(D)	1.7	29.6
3623	Welding apparatus, electric -	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3624	Carbon and graphite products -----	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
364	Electric lighting and wiring equipment -----	-	4	4	2.7	33.1	2.3	4.5	26.7	87.9	78.5	162.9	4.4	FF	(D)
3641	Electric lamps -----	-	1	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3644	Noncurrent-carrying wiring devices -----	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
366	Communication equipment ----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3662	Radio and TV communication equipment --	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
37	Transportation equipment -----	-	28	11	3.7	56.0	3.0	5.9	44.3	107.7	174.7	283.1	(D)	2.5	57.8
371	Motor vehicles and equipment -	-	11	3	0.8	14.3	0.7	1.6	11.4	27.5	36.8	66.9	(D)	EE	(D)
3714	Motor vehicle parts and accessories -----	-	5	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
372	Aircraft and parts -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3728	Aircraft equipment, n.e.c. ----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3743	Railroad equipment -----	-	3	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
379	Miscellaneous transportation equipment -----	-	7	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3795	Tanks and tank components -	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
38	Instruments and related products -----	-	18	6	0.9	10.6	0.6	1.1	6.0	69.0	28.6	96.3	(D)	0.6	49.3
382	Measuring and controlling devices -----	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3823	Process control instruments -	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3861	Photographic equipment and supplies -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
39	Miscellaneous manufacturing industries -----	-	48	9	1.2	10.5	0.9	1.6	6.9	32.2	23.7	55.9	1.0	1.8	25.9
394	Toys and sporting goods ----	-	13	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3944	Games, toys, and children's vehicles -----	-	7	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
399	Miscellaneous manufactures ---	E2	30	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3995	Burial caskets -----	-	4	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
-	Administrative and auxiliary -----	-	33	12	2.7	52.1	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expendi- tures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Charleston SMSA -----	-	205	66	15.7	245.4	10.9	21.6	156.7	725.7	932.4	1 647.8	125.8	16.2	603.9
20	Food and kindred products --	-	14	9	1.0	12.5	0.5	1.1	6.0	29.9	48.5	78.3	0.9	(NA)	(NA)
24	Lumber and wood products --	E8	14	3	0.5	3.5	0.4	0.7	2.4	9.9	13.6	21.4	(D)	0.4	3.1
27	Printing and publishing -----	-	29	4	0.8	8.7	0.4	0.7	4.2	20.3	7.1	27.4	1.0	0.6	10.1
28	Chemicals and allied products -----	-	22	13	8.6	150.7	6.6	13.4	108.8	579.5	729.4	1 303.2	111.6	9.3	511.4
286	Industrial organic chemicals -----	-	8	8	7.4	134.1	5.5	11.2	95.9	544.2	664.7	1 203.1	108.5	8.0	482.2
32	Stone, clay, and glass products -----	E1	21	8	0.9	11.7	0.7	1.4	8.7	18.0	20.7	39.5	(D)	1.7	32.3
34	Fabricated metal products ---	-	23	13	1.6	19.5	1.3	2.4	14.4	34.9	52.2	86.9	2.7	1.3	20.8
344	Fabricated structural metal products -----	-	11	6	0.6	7.1	0.4	0.9	5.1	11.3	20.5	32.1	1.6	0.5	9.9
35	Machinery, except electrical -	-	30	8	0.8	12.4	0.6	1.2	7.9	21.3	26.6	45.3	1.5	(NA)	(NA)
	Huntington-Ashland, W. Va.-Ky.-Ohio, SMSA -----	-	339	125	29.6	438.8	20.9	40.9	288.1	754.3	1 982.8	2 728.9	233.7	25.7	530.1
20	Food and kindred products --	-	21	12	0.9	9.4	0.4	0.9	4.4	22.0	47.6	69.2	(D)	0.8	15.7
24	Lumber and wood products --	E2	42	4	0.3	2.7	0.3	0.6	2.3	5.5	7.7	13.4	0.7	0.6	7.1
25	Furniture and fixtures -----	E1	13	5	0.3	2.6	0.2	0.5	1.6	4.8	7.0	11.8	0.1	0.4	3.6
251	Household furniture -----	E1	10	4	0.3	1.9	0.2	0.4	1.2	3.7	6.3	10.0	(D)	(NA)	(NA)
27	Printing and publishing -----	-	38	4	0.7	7.4	0.4	0.8	4.4	18.3	6.6	24.9	1.3	0.7	10.3
2711	Newspapers -----	-	14	3	0.5	5.7	0.3	0.5	3.2	13.3	3.4	16.8	0.6	0.6	8.3
28	Chemicals and allied products -----	-	18	9	1.8	28.7	1.3	2.7	19.0	92.7	138.3	226.5	(D)	1.5	48.0
286	Industrial organic chemicals -----	-	4	3	0.6	9.1	0.4	0.9	6.2	24.0	32.6	54.8	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	44	18	3.3	44.1	2.8	6.4	35.8	93.6	53.9	147.5	5.4	3.3	59.7
3229	Pressed and blown glass, n.e.c. -----	-	6	5	0.4	3.3	0.3	0.5	2.3	4.9	2.2	7.1	0.5	(NA)	(NA)
325	Structural clay products ---	-	7	6	0.3	4.3	0.3	1.4	3.5	13.1	11.5	24.9	0.5	0.3	4.5
329	Miscellaneous nonmetallic mineral products -----	-	4	3	0.6	7.3	0.5	1.0	5.5	17.9	8.1	25.6	(D)	0.5	9.5
33	Primary metal industries ----	-	12	7	10.2	179.0	8.0	15.2	134.9	300.9	686.6	992.5	41.1	9.6	242.6
34	Fabricated metal products ---	E1	29	13	1.2	11.3	0.9	1.8	7.6	23.4	21.6	44.6	1.7	1.0	11.7
344	Fabricated structural metal products -----	E1	16	9	0.8	7.0	0.6	1.0	4.6	12.8	13.9	26.7	0.8	0.5	7.5
35	Machinery, except electrical -	E1	43	15	1.9	23.0	1.3	2.3	14.7	47.3	46.7	88.6	2.3	1.0	12.1
353	Construction and related machinery -----	-	14	9	1.5	17.5	0.9	1.6	10.9	37.1	42.0	73.7	1.6	0.8	8.6
359	Miscellaneous machinery, except electrical -----	E5	22	5	0.4	4.8	0.3	0.6	3.4	8.8	4.0	12.7	0.7	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E5	22	5	0.4	4.8	0.3	0.6	3.4	8.8	4.0	12.7	0.7	(NA)	(NA)
	Parkersburg-Marietta, W. Va.-Ohio, SMSA -----	-	182	63	15.8	222.4	11.2	21.7	139.7	724.9	779.3	1 479.2	85.3	18.0	482.2
24	Lumber and wood products --	E1	31	2	0.3	2.3	0.3	0.5	1.8	4.8	5.6	10.4	0.8	(NA)	(NA)
27	Printing and publishing -----	-	18	4	0.4	4.3	0.2	0.4	2.2	9.8	3.5	13.4	0.3	0.4	6.4
28	Chemicals and allied products -----	-	12	8	4.5	81.1	3.0	6.2	46.8	427.4	404.8	808.4	64.9	6.6	265.1
32	Stone, clay, and glass products -----	-	27	10	2.7	35.7	2.2	4.3	27.6	80.4	40.8	121.2	4.0	2.6	49.6
322	Glass and glassware, pressed or blown -----	-	4	4	1.7	21.8	1.4	2.7	16.7	49.5	17.9	67.8	1.9	1.6	31.4
34	Fabricated metal products ---	-	19	11	2.0	24.3	1.3	2.3	14.8	60.1	70.6	133.4	0.8	2.1	42.2
344	Fabricated structural metal products -----	-	12	6	0.4	5.0	0.3	0.5	3.2	11.0	8.0	18.8	0.2	0.5	8.2
3444	Sheet metal work -----	-	4	3	0.3	3.2	0.2	0.3	2.1	5.7	2.9	8.5	(D)	0.4	4.5
	Steubenville-Weirton, Ohio-W. Va., SMSA -----	-	138	67	26.7	497.6	21.2	41.0	382.6	955.0	1 643.9	2 601.6	67.9	29.0	705.7
26	Paper and allied products ---	-	10	7	0.6	6.8	0.4	0.8	4.7	14.1	20.0	34.3	2.4	(NA)	(NA)
264	Miscellaneous converted paper products -----	-	6	4	0.3	3.5	0.2	0.5	2.4	7.9	11.0	18.9	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	6	4	0.4	6.9	0.3	0.7	4.2	29.7	49.7	79.0	(D)	0.5	17.3
32	Stone, clay, and glass products -----	-	27	17	3.5	34.6	3.0	5.3	28.0	61.3	31.9	90.9	6.2	3.8	41.2
3255	Clay refractories -----	-	7	5	0.5	7.2	0.4	0.9	5.4	14.7	10.0	24.3	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	17	11	1.4	19.3	1.1	2.1	13.5	65.0	109.8	175.6	2.2	1.7	34.0
346	Metal forgings and stampings -----	-	4	2	0.5	6.4	0.4	0.7	4.4	11.0	13.5	24.6	0.4	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SMSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SMSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Wheeling, W. Va.-Ohio, SMSA -----	-	156	68	13.0	173.5	9.8	17.9	117.2	427.3	552.0	978.6	40.3	13.3	202.8
20	Food and kindred products --	-	20	10	0.9	11.0	0.5	1.0	4.9	42.7	59.8	102.3	3.7	1.3	23.3
202	Dairy products -----	-	8	5	0.4	4.8	0.1	0.3	1.4	20.3	36.7	56.9	(D)	0.4	6.8
23	Apparel and other textile products-----	E6	7	3	0.7	3.9	0.6	1.0	3.4	5.0	0.6	5.6	(D)	0.7	3.7
27	Printing and publishing -----	-	23	4	0.4	4.3	0.2	0.4	1.4	9.7	3.1	12.7	0.4	0.5	7.1
28	Chemicals and allied products-----	-	10	4	1.7	32.9	1.1	2.2	20.4	92.7	122.3	220.8	(D)	0.7	26.7
32	Stone, clay, and glass products-----	-	15	6	1.1	12.5	0.8	1.5	8.6	24.5	10.8	34.9	1.6	1.2	12.8
33	Primary metal industries ----	-	11	7	1.4	21.7	1.1	2.0	17.1	47.5	50.0	96.8	1.4	(NA)	(NA)
34	Fabricated metal products ---	-	19	15	3.3	42.9	2.7	4.7	32.4	110.0	193.8	298.6	4.3	2.6	34.2
349	Miscellaneous fabricated metal products-----	-	3	3	1.2	11.8	1.0	1.6	8.7	26.8	25.8	52.1	0.9	0.9	14.3

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
 (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital ex- penditures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
20	Berkeley County -----	-	33	18	3.6	41.3	2.7	5.4	27.1	117.7	96.3	212.1	4.9	3.3	83.4
	Food and kindred products --	-	4	3	0.6	6.7	0.4	1.1	4.1	19.0	26.2	45.2	(D)	0.6	12.5
	Cabell County -----	-	150	57	13.1	179.6	9.9	19.4	125.7	329.2	616.4	951.2	(D)	12.1	209.1
	Fayette County -----	-	39	7	1.6	22.2	1.2	2.4	15.6	37.4	57.8	89.8	2.3	(D)	(D)
	Greenbrier County -----	-	42	10	1.7	14.5	1.4	2.4	9.6	31.8	30.1	62.4	1.3	0.8	12.4
	Hancock County -----	-	33	19	15.4	301.4	12.4	23.9	232.6	435.8	751.6	1 191.5	29.2	15.4	375.1
	Hardy County -----	-	19	4	1.0	7.1	0.9	1.7	5.8	20.9	27.5	48.2	(D)	1.5	14.1
	Harrison County -----	-	88	24	4.6	53.7	3.6	6.8	39.6	106.5	135.5	242.9	6.4	5.7	96.9
32	Stone, clay, and glass	-	14	8	2.5	25.8	2.0	3.9	20.7	41.0	37.0	77.4	(D)	3.5	50.2
3231	Products of purchased glass -----														
35	Machinery, except electrical --	-	16	6	0.6	7.5	0.5	0.9	5.0	22.8	36.4	60.1	(D)	(NA)	(NA)
	Jefferson County -----	-	25	8	1.2	13.2	1.0	1.7	9.3	79.3	43.3	121.2	3.3	1.5	18.3
	Kanawha County -----	-	184	60	14.3	227.0	9.7	19.2	141.9	697.9	875.2	1 562.8	123.4	14.7	577.4
24 286	Lumber and wood products --	E8	14	3	0.5	3.5	0.4	0.7	2.4	9.9	13.6	21.4	(D)	(NA)	(NA)
	Industrial organic chemicals -----														
		-	8	8	7.4	134.1	5.5	11.2	95.9	544.2	664.7	1 203.1	108.5	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expendi- tures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
32	Lewis County -----	-	28	5	1.0	8.0	0.9	1.9	6.8	13.8	7.2	21.1	2.3	1.1	8.6
	Stone, clay, and glass products -----	-	11	2	0.8	6.8	0.8	1.6	5.6	10.7	4.1	14.9	(D)	0.9	7.0
	Logan County -----	-	32	12	0.6	5.7	0.5	0.9	3.6	11.1	13.2	24.1	2.5	1.0	8.2
35	Marion County -----	-	78	26	5.5	67.4	4.3	8.2	50.2	146.5	137.5	284.6	10.8	5.7	103.4
	Machinery, except electrical --	E1	24	9	1.3	15.8	0.8	1.6	8.8	29.2	27.0	56.8	(D)	0.9	11.3
	Marshall County -----	-	26	14	4.6	68.7	3.3	6.4	45.6	182.0	254.9	440.5	30.8	4.1	79.6
28	Mason County -----	-	19	9	1.5	19.6	1.1	2.2	14.0	49.3	106.0	153.7	5.8	1.5	39.9
	Chemicals and allied products -----	-	4	3	0.8	10.3	0.5	1.0	6.8	33.5	73.2	103.8	(D)	(NA)	(NA)
	Mercer County -----	-	71	19	2.1	26.3	1.5	3.1	16.6	67.4	49.0	113.1	7.4	2.6	39.1
35	Machinery, except electrical --	-	15	8	0.7	9.8	0.5	1.2	6.8	26.7	12.2	35.1	(D)	(NA)	(NA)
353	Construction and related machinery -----	-	6	3	0.5	7.2	0.4	0.8	5.0	22.2	9.6	28.1	(D)	(NA)	(NA)
3532	Mining machinery -----	-	6	3	0.5	7.2	0.4	0.8	5.0	22.2	9.6	28.1	(D)	(NA)	(NA)
	Mineral County -----	-	31	7	1.2	16.7	0.6	1.1	5.4	16.8	14.5	31.6	1.5	1.3	4.9
	Monongalia County -----	-	69	16	2.8	27.3	2.2	4.1	17.6	42.2	51.5	92.6	4.6	2.8	35.1
	Stone, clay, and glass products -----	-	19	7	0.8	6.5	0.7	1.1	4.8	9.9	7.4	16.8	(D)	0.7	8.1
322	Glass and glassware, pressed or blown -----	-	5	5	0.7	5.4	0.6	1.0	4.1	7.8	4.4	11.7	(D)	0.6	6.5
3229	Pressed and blown glass, n.e.c. -----	-	5	5	0.7	5.4	0.6	1.0	4.1	7.8	4.4	11.7	(D)	(NA)	(NA)
	Nicholas County -----	-	38	10	0.9	8.2	0.7	1.3	5.2	19.9	13.4	34.2	0.6	1.3	13.8
	Pendleton County -----	-	11	5	0.7	4.0	0.6	1.1	3.7	9.1	10.1	19.1	0.4	0.5	2.5
	Pocahontas County -----	-	19	7	0.5	4.1	0.5	0.8	3.7	7.7	19.7	27.2	1.0	0.4	4.5
	Preston County -----	-	34	9	1.0	8.7	0.9	1.7	7.4	22.1	16.9	37.7	2.0	1.1	12.4
	Putnam County -----	-	21	6	1.4	18.4	1.2	2.4	14.8	27.7	57.2	85.0	2.4	1.5	26.5
	Raleigh County -----	-	54	22	1.4	16.8	0.9	1.9	9.5	43.9	55.1	96.7	2.6	1.4	56.9
35	Machinery, except electrical --	-	14	4	0.5	6.6	0.3	0.6	3.7	19.3	24.0	40.6	(D)	(NA)	(NA)
	Construction and related machinery -----	-	9	3	0.5	6.2	0.3	0.6	3.4	19.0	23.2	39.6	0.3	(NA)	(NA)
	Randolph County -----	-	48	14	1.2	8.2	1.0	1.8	6.4	17.9	18.6	36.0	(D)	1.6	14.3
	Ritchie County -----	-	20	7	0.7	5.3	0.7	1.2	4.1	10.8	11.6	22.4	(D)	0.6	3.9
	Roane County -----	-	23	6	1.1	8.4	0.8	1.5	6.1	24.9	27.4	50.3	1.0	0.8	8.5
	Tucker County -----	-	11	4	0.6	4.9	0.6	1.2	4.3	14.8	11.7	26.7	0.4	0.6	5.4
	Upshur County -----	-	36	8	1.0	10.7	0.8	1.6	8.2	31.4	31.7	61.8	1.6	1.0	23.5
	Wayne County -----	-	49	14	1.7	19.6	1.3	2.5	12.3	52.0	59.1	109.4	(D)	1.8	21.0
	Wetzel County -----	-	24	7	1.6	21.6	1.2	2.2	14.5	80.8	46.9	128.1	(D)	2.4	72.6

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
 - Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.
¹ Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
² Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manu- • facture (million dollars)	Cost of materi- als ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
3231	Beckley -----	-	30	14	1.0	10.9	0.6	1.1	5.4	26.7	41.2	67.1	1.9	0.6	9.4
	Buckhannon -----	-	27	7	1.0	10.3	0.8	1.6	7.9	30.6	30.6	60.0	1.5	1.0	23.3
	Clarksburg -----	-	55	18	3.8	45.5	3.0	5.6	33.0	89.2	97.4	187.5	5.6	5.1	74.3
	Products of purchased glass -----	-	4	4	0.7	6.3	0.6	1.2	5.2	6.0	11.6	17.3	(D)	(NA)	(NA)
	Elkins -----	-	26	9	0.8	5.4	0.7	1.2	4.2	13.1	10.0	22.8	0.7	1.3	10.4
	Fairmont -----	-	58	22	5.1	64.7	4.0	7.7	48.0	139.3	132.3	272.9	10.6	(D)	(D)
	Huntington -----	-	125	53	12.9	177.6	9.8	19.2	123.8	327.0	609.0	941.5	20.4	12.0	201.3
20	Food and kindred products --	E1	11	7	0.6	6.1	0.3	0.7	2.8	12.1	31.5	43.3	1.6	0.6	9.2
28	Chemicals and allied products -----	-	8	3	0.5	6.8	0.4	0.7	4.3	17.2	16.6	32.2	1.7	(NA)	(NA)
34	Fabricated metal products ---	E2	18	8	0.7	7.0	0.5	1.0	4.5	14.6	14.5	28.9	1.3	(NA)	(NA)
35	Machinery, except electrical --	E2	19	9	0.6	8.7	0.5	0.9	5.6	18.2	13.4	31.0	1.0	(NA)	(NA)
	Keyser -----	-	18	6	0.6	6.2	0.5	1.0	5.0	15.9	13.7	29.8	1.4	(NA)	(NA)
	Kingwood -----	-	9	3	0.5	4.7	0.5	1.0	4.1	6.5	7.1	13.6	(D)	0.6	6.0
	Morgantown -----	-	53	14	2.5	24.4	1.9	3.6	15.3	36.5	46.7	84.4	4.5	2.1	26.4
32	Stone, clay, and glass products -----	-	12	5	0.5	4.1	0.4	0.7	2.9	5.3	5.0	10.2	(D)	(NA)	(NA)
	Nitro -----	-	17	11	2.3	33.3	1.8	3.7	24.4	103.2	139.3	242.7	17.4	1.0	50.0
28	Chemicals and allied products -----	-	6	6	2.0	30.1	1.6	3.3	21.9	97.1	123.7	220.9	15.7	0.9	48.0
	Parkersburg -----	-	59	20	3.4	36.9	2.4	4.4	23.6	92.7	68.6	164.3	4.1	5.4	103.3
	Princeton -----	-	38	12	1.1	12.0	0.9	1.5	7.4	24.9	23.3	48.5	2.6	0.9	11.1
	Wellsburg -----	-	17	8	1.0	10.4	0.8	1.6	7.2	21.2	26.2	47.6	(D)	1.0	16.2
	Weston -----	-	14	4	0.9	7.4	0.9	1.8	6.1	10.8	5.1	15.9	(D)	0.9	7.2
	Wheeling -----	-	61	30	4.3	50.9	3.2	5.6	31.8	102.5	68.6	166.0	3.6	(D)	(D)
34	Fabricated metal products ---	-	7	6	1.2	11.7	1.1	1.7	8.8	30.9	20.1	45.8	0.6	(NA)	(NA)

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major group descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
WEST VIRGINIA	1857	126	2	7	63	465	37	28	214	73	27	35	14	206	49	131	227	26	28	18	48	33
1 TO 4 EMPLOYEES	816	42	-	1	17	296	9	8	129	19	13	11	1	72	8	38	87	4	12	5	30	14
5 TO 9 EMPLOYEES	216	13	-	1	4	51	6	1	25	9	5	6	1	20	4	12	38	5	3	5	5	2
10 TO 19 EMPLOYEES	242	18	-	1	8	51	8	1	22	6	-	3	-	35	9	22	43	2	2	2	4	5
20 TO 49 EMPLOYEES	230	22	-	-	5	46	7	6	20	9	2	4	5	1	27	6	21	34	3	2	1	7
50 TO 99 EMPLOYEES	138	14	1	2	12	13	6	6	7	7	2	4	3	14	6	19	10	3	4	3	-	2
100 TO 249 EMPLOYEES	109	12	1	1	10	6	2	1	5	3	4	2	5	16	6	9	10	4	2	-	1	3
250 TO 499 EMPLOYEES	64	5	-	1	6	2	-	1	3	4	-	2	5	14	2	8	4	4	-	2	1	2
500 TO 999 EMPLOYEES	28	-	-	-	1	-	-	-	-	8	-	-	-	-	5	2	1	1	1	-	-	-
1000 TO 2499 EMPLOYEES	10	-	-	-	-	-	-	-	-	5	-	-	-	-	3	-	-	-	-	-	-	-
2500 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
BARBOUR COUNTY	18	-	-	-	1	13	2	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	16	-	-	-	12	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BERKELEY COUNTY	33	4	-	1	3	4	3	1	4	1	1	1	-	4	-	2	2	1	1	-	-	-
1 TO 19 EMPLOYEES	15	1	-	1	2	1	1	2	3	-	-	-	-	1	-	1	2	1	1	-	-	-
20 TO 99 EMPLOYEES	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	5	2	-	1	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	1	-	-	1	-	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-	-
BOONE COUNTY	12	-	-	-	-	4	-	-	1	-	-	2	-	3	-	-	1	1	-	-	-	-
1 TO 19 EMPLOYEES	11	-	-	-	-	4	-	-	1	-	-	2	-	3	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BRAXTON COUNTY	17	-	-	-	-	6	1	-	2	-	1	-	1	1	-	2	2	-	-	-	1	-
1 TO 19 EMPLOYEES	13	-	-	-	-	5	1	-	2	-	-	-	-	-	-	-	-	-	-	-	1	-
20 TO 99 EMPLOYEES	4	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BROOKE COUNTY	37	-	-	-	-	2	1	6	6	1	2	1	-	4	2	8	3	-	-	-	-	1
1 TO 19 EMPLOYEES	17	-	-	-	-	2	1	2	4	-	2	-	-	-	1	3	3	-	-	-	-	-
20 TO 99 EMPLOYEES	8	-	-	-	-	-	3	1	1	-	-	-	-	2	1	1	-	-	-	-	-	-
100 TO 249 EMPLOYEES	7	-	-	-	-	-	1	1	1	-	-	-	-	1	-	2	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-
CABELL COUNTY	150	12	-	-	5	8	10	4	16	8	1	1	1	12	6	21	25	3	5	5	3	4
1 TO 19 EMPLOYEES	93	5	-	-	2	7	6	2	14	5	1	1	-	6	4	12	16	2	3	3	1	1
20 TO 99 EMPLOYEES	38	6	-	-	1	1	4	2	1	2	-	-	-	2	-	8	6	-	-	2	-	3
100 TO 249 EMPLOYEES	8	1	-	-	1	1	-	-	1	1	-	-	-	3	-	1	3	-	-	-	-	-
250 EMPLOYEES AND OVER	11	-	-	-	2	-	-	-	1	1	-	-	1	1	2	-	-	1	2	-	-	-
CALHOUN COUNTY	12	-	-	-	-	7	-	-	1	-	-	2	-	-	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	9	-	-	-	-	7	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CLAY COUNTY	8	-	-	-	-	6	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	-	5	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
DODDRIDGE COUNTY	8	-	-	-	1	5	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FAYETTE COUNTY	39	-	-	-	1	12	-	2	5	-	1	1	-	2	1	1	11	2	-	-	-	-
1 TO 19 EMPLOYEES	32	-	-	-	1	11	-	2	4	-	1	1	-	1	-	1	9	1	-	-	-	-
20 TO 99 EMPLOYEES	5	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GILMER COUNTY	14	-	-	-	-	7	-	-	2	-	-	3	1	1	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	13	-	-	-	-	7	-	-	2	-	-	3	1	1	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRANT COUNTY	23	1	-	-	-	16	-	-	2	-	-	1	-	2	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	19	1	-	-	-	15	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GREENBRIER COUNTY	42	4	-	1	4	16	3	-	7	-	-	-	1	2	-	-	-	1	-	2	-	1
1 TO 19 EMPLOYEES	32	3	-	1	2	13	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	1	-	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	3	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal products; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
HAMPSHIRE COUNTY	14	-	-	-	1	6	-	-	2	-	-	-	2	1	-	-	-	-	1	-	-	1
1 TO 19 EMPLOYEES	9	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HANCOCK COUNTY	33	-	-	-	-	1	1	1	6	2	3	-	-	11	1	3	2	1	1	-	-	-
1 TO 19 EMPLOYEES	14	-	-	-	-	1	-	-	5	-	1	-	-	3	-	1	2	-	-	-	-	-
20 TO 99 EMPLOYEES	11	-	-	-	-	-	1	-	1	2	1	-	-	4	-	2	-	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	-	-	-	-	-	-
HARDY COUNTY	19	2	-	-	1	9	-	-	1	-	-	1	2	-	-	1	1	1	-	-	-	-
1 TO 19 EMPLOYEES	15	-	-	-	1	8	-	-	1	-	-	1	1	-	-	1	1	1	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HARRISON COUNTY	88	15	-	-	1	6	-	-	12	2	1	1	-	14	4	5	16	2	3	1	4	1
1 TO 19 EMPLOYEES	64	12	-	-	1	6	-	-	11	2	1	1	-	6	2	4	10	1	2	1	3	1
20 TO 99 EMPLOYEES	15	3	-	-	-	-	-	-	-	-	-	-	-	3	2	1	5	-	1	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	1	-	-	-	-	-
JACKSON COUNTY	16	1	-	-	1	4	-	-	2	1	1	-	-	2	2	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	12	1	-	-	1	4	-	-	1	1	1	-	-	2	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JEFFERSON COUNTY	25	-	-	-	1	5	-	1	4	4	-	-	-	2	-	3	2	-	-	1	1	1
1 TO 19 EMPLOYEES	17	-	-	-	1	4	-	-	2	2	4	-	-	2	-	1	1	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KANAWHA COUNTY	184	12	-	1	6	14	4	3	27	19	4	3	-	15	4	19	28	1	2	5	11	6
1 TO 19 EMPLOYEES	124	3	-	1	4	11	4	3	23	8	3	3	-	8	4	8	20	1	2	5	10	3
20 TO 99 EMPLOYEES	38	5	-	1	1	2	-	-	2	5	-	-	-	6	-	8	6	-	-	-	-	-
100 TO 249 EMPLOYEES	8	2	-	-	-	-	-	-	1	1	1	-	-	1	-	1	1	-	-	-	1	1
250 EMPLOYEES AND OVER	14	2	-	-	-	1	-	-	1	5	-	-	-	1	-	2	1	-	-	-	-	-
LEWIS COUNTY	28	-	-	1	1	11	-	1	1	-	-	-	-	11	1	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	23	-	-	1	1	11	-	-	1	-	-	-	-	9	-	-	1	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	1	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LINCOLN COUNTY	14	-	-	1	2	6	-	-	1	-	-	-	-	3	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	13	-	-	1	1	6	-	-	1	-	-	-	-	3	-	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LOGAN COUNTY	32	2	-	-	1	5	-	1	3	-	2	2	-	4	-	-	11	-	-	-	-	1
1 TO 19 EMPLOYEES	20	-	-	-	-	3	-	-	1	-	-	-	-	-	-	-	9	-	-	-	-	-
20 TO 99 EMPLOYEES	11	2	-	-	-	2	-	-	1	2	-	-	-	2	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MC DOWELL COUNTY	10	-	-	-	1	5	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	1
1 TO 19 EMPLOYEES	6	-	-	-	1	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	3	-	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARION COUNTY	78	6	-	-	2	6	1	1	6	1	-	1	-	8	5	7	24	2	4	3	-	1
1 TO 19 EMPLOYEES	52	4	-	-	1	6	-	-	3	1	-	-	-	6	2	7	15	1	4	2	-	-
20 TO 99 EMPLOYEES	16	2	-	-	-	-	-	1	2	-	-	-	-	1	-	-	7	-	-	-	-	-
100 TO 249 EMPLOYEES	6	-	-	-	1	-	-	-	1	-	-	-	-	1	1	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MARSHALL COUNTY	26	2	-	-	1	1	-	-	3	6	2	-	1	3	1	2	1	1	-	-	2	-
1 TO 19 EMPLOYEES	12	-	-	-	1	1	-	-	1	3	1	-	1	1	-	1	1	-	-	-	1	-
20 TO 99 EMPLOYEES	6	1	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	6	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major group descriptions are: 20---food and kindred products; 21---tobacco manufactures; 22---textile mill products; 23---apparel and other textile products; 24---lumber and wood products; 25---furniture and fixtures; 26---paper and allied products; 27---printing and publishing; 28---chemicals and allied products; 29---petroleum and coal products; 30---rubber and miscellaneous plastics products; 31---leather and leather products; 32---stone, clay, and glass products; 33---primary metal industries; 34---fabricated metal products; 35---machinery, except electrical; 36---electric and electronic equipment; 37---transportation equipment; 38---instruments and related products; 39---miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																		39	CAO's
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	
MASON COUNTY	19	1	-	-	1	3	-	-	-	1	4	1	-	2	2	1	1	-	1	-	-
1 TO 19 EMPLOYEES	10	-	-	-	-	2	-	-	1	1	1	1	-	-	-	1	1	-	-	-	-
20 TO 99 EMPLOYEES	5	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MERCER COUNTY	71	7	-	-	3	13	1	-	8	1	-	1	-	8	1	7	15	2	-	-	4
1 TO 19 EMPLOYEES	52	4	-	-	2	12	1	-	7	-	-	-	-	7	1	5	7	1	-	-	4
20 TO 99 EMPLOYEES	12	-	-	-	-	1	-	-	1	1	-	-	-	1	-	2	6	-	-	-	-
100 TO 249 EMPLOYEES	7	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
MINERAL COUNTY	31	1	-	-	2	9	1	1	3	-	-	-	-	6	1	3	2	-	-	-	2
1 TO 19 EMPLOYEES	24	1	-	-	9	1	-	-	3	-	-	-	-	4	1	2	2	-	-	-	1
20 TO 99 EMPLOYEES	5	-	-	-	2	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MINGO COUNTY	26	4	-	-	-	11	-	-	2	-	-	-	-	4	-	1	3	-	-	-	1
1 TO 19 EMPLOYEES	20	2	-	-	-	8	-	-	1	-	-	-	-	4	-	1	3	-	-	-	1
20 TO 99 EMPLOYEES	6	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MONONGALIA COUNTY	69	2	-	-	2	11	1	-	6	2	-	-	-	19	1	7	13	1	-	-	2
1 TO 19 EMPLOYEES	53	1	-	-	11	1	-	-	5	-	-	-	-	12	-	5	13	1	-	-	2
20 TO 99 EMPLOYEES	6	1	-	-	1	-	-	-	-	-	-	-	-	3	1	-	-	-	-	-	2
100 TO 249 EMPLOYEES	8	-	-	-	-	-	-	-	1	2	-	-	-	4	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MONROE COUNTY	12	-	-	-	1	9	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	11	-	-	-	1	9	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MORGAN COUNTY	11	1	-	-	-	4	1	-	1	-	-	-	-	1	-	-	1	-	1	-	1
1 TO 19 EMPLOYEES	8	1	-	-	-	4	1	-	1	-	-	-	-	1	-	-	1	-	1	-	1
20 TO 99 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NICHOLAS COUNTY	38	2	-	-	-	23	-	1	3	-	-	3	-	1	-	-	2	-	1	-	2
1 TO 19 EMPLOYEES	28	2	-	-	-	18	-	-	3	-	-	1	-	-	-	-	1	-	1	-	2
20 TO 99 EMPLOYEES	7	-	-	-	-	5	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OHIO COUNTY	66	9	2	-	4	-	-	2	13	2	-	-	-	2	7	8	9	-	2	1	3
1 TO 19 EMPLOYEES	34	4	1	-	3	-	-	-	11	1	-	-	-	1	3	4	4	-	1	1	3
20 TO 99 EMPLOYEES	22	4	1	-	-	-	-	2	1	1	-	-	-	1	-	4	4	-	-	-	-
100 TO 249 EMPLOYEES	5	1	1	-	-	-	-	-	1	-	-	-	-	-	-	1	1	-	-	-	-
250 EMPLOYEES AND OVER	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	1	-	1
PENDLETON COUNTY	11	-	-	-	1	7	-	-	1	-	-	-	1	1	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	6	-	-	-	1	5	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
PLEASANTS COUNTY	5	-	-	-	-	1	-	-	1	1	1	-	-	-	-	1	-	-	-	-	-
1 TO 19 EMPLOYEES	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POCAHONTAS COUNTY	19	3	-	-	-	10	-	-	1	-	1	1	2	1	-	-	-	-	-	-	-
1 TO 19 EMPLOYEES	12	3	-	-	-	7	-	-	1	-	-	1	1	1	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES	6	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PRESTON COUNTY	34	1	-	-	1	17	-	-	4	2	-	1	1	1	3	2	1	-	-	-	-
1 TO 19 EMPLOYEES	25	1	-	-	14	-	-	-	4	2	-	1	1	1	1	1	1	-	-	-	-
20 TO 99 EMPLOYEES	4	-	-	-	1	2	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PUTNAM COUNTY	21	2	-	-	-	-	-	-	2	3	-	-	-	6	-	4	2	2	-	-	-
1 TO 19 EMPLOYEES	15	2	-	-	-	-	-	-	2	1	-	-	-	5	-	2	2	1	-	-	-
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).
- Represents zero.
* Only those counties and size classes that include data for manufacturing establishments are shown.

Wisconsin

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WISCONSIN



SUMMARY OF FINDINGS

In 1977, 535.0 thousand persons were employed in Wisconsin's manufacturing establishments. This figure represented an increase of 7 percent from the 1972 figure of 500.5 thousand workers.

The total value added by manufacture for the State amounted to \$16,606 million in 1977, an increase of approximately 76 percent from the 1972 figure of \$9,443 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were machinery, except electrical; food and kindred products; fabricated metal products; and electrical and electronic equipment. They accounted for approximately 51 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 50 percent of the State's employment.

The most important counties in the State ranked by employment were Milwaukee, Waukesha, Racine, and Winnebago. They accounted for approximately 43 percent of the State's 1977 manufacturing employment. In 1972 these same counties accounted for approximately 45 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 3 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

State, standard metropolitan statistical area, and year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
Wisconsin:						
1977.....	535.0	7,317.8	511.9	6,897.9	23.1	419.9
1972.....	500.5	4,722.3	484.3	4,517.7	16.2	204.6
1967.....	512.2	3,577.8	494.9	3,413.1	17.3	164.7
1963.....	461.8	2,781.1	448.2	2,664.8	13.6	116.3
STANDARD CONSOLIDATED STATISTICAL AREA						
Milwaukee-Racine:						
1977.....	231.3	3,428.3	219.2	3,194.4	12.1	233.9
1972.....	226.1	2,275.7	217.6	2,174.0	8.5	101.7
STANDARD METROPOLITAN STATISTICAL AREAS						
Appleton-Oshkosh:						
1977.....	42.9	582.2	40.8	543.3	2.1	38.9
1972.....	38.4	362.3	36.6	337.0	1.8	25.3
Duluth-Superior, Minn.-Wis.:						
1977.....	9.4	110.9	9.2	107.0	.2	3.9
1972.....	10.4	85.0	10.0	80.3	.4	4.7
1967.....	12.0	74.2	11.9	73.4	.1	.8
1963.....	11.5	60.6	11.5	60.3	(Z)	.3
Eau Claire:						
1977.....	8.7	114.4	(Z)	114.3	(Z)	.1
1972.....	5.2	61.0	(NA)	(NA)	(NA)	(NA)
Green Bay:						
1977.....	20.3	290.9	20.0	284.0	.3	6.9
1972.....	17.5	171.7	17.3	169.4	.2	2.3
1967.....	16.2	114.8	(D)	(D)	(D)	(D)
1963.....	13.5	81.7	(D)	(D)	(D)	(D)
Kenosha:						
1977.....	17.7	246.2	17.5	243.7	.2	2.5
1972.....	15.8	178.7	(D)	(D)	(D)	(D)
1967.....	16.3	117.4	16.3	117.4	-	-
1963.....	22.5	150.5	(D)	(D)	(D)	(D)
Lacrosse:						
1977.....	9.4	111.8	9.4	111.8	-	-
1972.....	8.4	69.5	8.4	69.5	-	-
Madison:						
1977.....	18.2	264.5	16.5	228.2	1.7	36.3
1972.....	16.2	163.7	14.6	139.4	1.6	24.3
1967.....	16.3	118.4	15.1	105.2	1.2	13.2
1963.....	13.5	83.1	12.4	75.6	1.0	7.5
Milwaukee:						
1977.....	204.1	3,042.5	195.3	2,872.9	8.8	169.6
1972.....	200.0	2,025.4	193.6	1,945.9	6.4	79.5
1967.....	216.5	1,628.8	207.6	1,544.7	8.9	84.1
1963.....	193.8	1,271.9	187.8	1,219.9	6.0	52.1
Minneapolis-St. Paul, Minn.-Wis.:						
1977.....	216.9	3,331.3	189.3	2,670.7	27.6	660.6
1972.....	199.0	2,048.0	173.9	1,718.3	25.1	329.7
1967.....	203.7	1,524.9	181.0	1,313.4	22.7	211.5
1963.....	163.8	1,056.0	149.6	940.8	14.2	115.1
Racine:						
1977.....	27.2	385.8	23.9	321.5	3.3	64.3
1972.....	25.8	250.3	23.7	228.1	2.1	22.2
1967.....	26.2	199.3	23.9	179.1	2.3	20.2
1963.....	22.2	147.2	(D)	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, SMSA, county, or city totals in other tables.

Table 2a. Historical Statistics for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers							Comparative indexes and U.S. employment			
												United States			
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (per- cent)	Index of State employ- ment change (1977= 100)	Index of manufac- turing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)
WISCONSIN															
1977 CENSUS.	8 678	3 163	535.0	7 317.8	381.0	745.4	4 697.1	16 606.0	22 362.9	38 725.3	1 184.4	2.73	100	100	19 596.9
1976 ASM....	(NA)	(NA)	519.9	6 611.4	370.8	717.4	4 232.6	14 905.5	20 670.1	35 427.3	913.1	2.77	97	96	18 753.0
1975 ASM....	(NA)	(NA)	516.5	6 068.7	365.9	701.4	3 829.1	12 926.1	18 107.9	31 045.7	880.4	2.82	97	94	18 302.2
1974 ASM....	(NA)	(NA)	552.2	5 973.5	401.0	783.1	3 874.8	12 544.2	17 563.4	29 599.3	892.9	2.78	103	102	19 844.8
1973 ASM....	(NA)	(NA)	532.8	5 376.1	390.6	783.8	3 559.2	10 825.2	14 623.5	25 161.6	706.4	2.68	100	102	19 897.9
1972 CENSUS.	7 845	2 861	500.5	4 722.3	360.5	720.5	2 062.7	9 443.3	11 970.1	21 245.5	535.3	2.63	94	98	19 028.7
1971 ASM....	(NA)	(NA)	479.8	4 227.1	342.2	670.2	2 681.7	8 476.4	10 343.0	18 830.0	406.4	2.61	90	94	18 363.1
1970 ASM....	(NA)	(NA)	500.6	4 125.0	359.8	710.6	2 628.1	7 874.1	9 615.7	17 425.5	468.1	2.60	94	99	19 217.2
1969 ASM....	(NA)	(NA)	523.9	4 101.0	385.7	771.4	2 687.7	8 106.6	9 684.7	17 760.8	473.2	2.61	98	103	20 035.5
1968 ASM....	(NA)	(NA)	514.0	3 811.1	375.5	754.6	2 481.5	7 514.7	9 013.7	16 549.3	461.9	2.63	96	100	19 527.6
1967 CENSUS.	7 838	2 727	512.2	3 577.8	374.5	754.8	2 332.8	7 014.1	8 511.3	15 452.1	506.6	2.65	96	99	19 323.2
1966 ASM....	(NA)	(NA)	515.2	3 493.1	380.3	784.0	2 311.5	6 831.7	8 531.0	15 219.2	476.5	2.71	96	98	19 024.5
1965 ASM....	(NA)	(NA)	494.5	3 199.0	365.1	749.6	2 125.1	6 179.0	7 878.1	14 007.5	353.8	2.75	92	92	18 010.2
1964 ASM....	(NA)	(NA)	472.0	2 950.3	346.2	707.9	1 936.8	5 717.4	7 107.8	12 732.0	305.8	2.73	88	89	17 268.5
1963 CENSUS.	7 937	2 467	461.8	2 781.1	338.5	687.8	1 827.4	5 363.2	(NA)	(NA)	280.7	2.72	86	87	16 958.4
MILWAUKEE-RACINE SCSA															
1977 CENSUS.	3 264	1 288	231.3	3 428.3	156.2	302.8	2 094.8	7 389.5	7 034.5	14 297.3	444.7	1.18	100	100	19 596.9
1972 CENSUS.	2 998	1 173	226.1	2 275.7	153.6	305.1	1 405.2	4 286.4	3 865.4	8 093.7	218.5	1.19	98	98	19 028.7
APPLETON-OSHKOSH SMSA															
1977 CENSUS.	500	237	42.9	582.2	30.9	61.8	375.9	1 368.9	1 905.2	3 233.2	96.3	.22	100	100	19 596.9
1976 ASM....	(NA)	(NA)	41.9	522.8	30.2	59.0	340.3	1 138.9	1 674.9	2 802.1	93.4	.22	98	96	18 753.0
1975 ASM....	(NA)	(NA)	41.1	466.6	29.5	57.8	303.1	1 017.6	1 412.9	2 424.0	76.0	.22	96	94	18 302.2
1974 ASM....	(NA)	(NA)	44.1	462.4	32.7	66.0	315.4	1 049.5	1 460.7	2 470.7	65.3	.22	103	102	19 844.8
1973 ASM....	(NA)	(NA)	42.1	420.3	31.1	63.1	281.5	880.1	1 153.5	2 009.6	64.0	.21	98	102	19 897.9
1972 CENSUS.	472	210	38.4	362.3	28.4	58.3	240.2	723.8	923.8	1 640.9	58.7	.20	89	98	19 028.7
MILWAUKEE SMSA															
1977 CENSUS.	2 859	1 141	204.1	3 042.5	138.7	268.8	1 882.5	6 408.8	6 272.7	12 554.3	389.1	1.04	100	100	19 596.9
1976 ASM....	(NA)	(NA)	200.7	2 739.9	136.1	260.3	1 696.0	5 855.7	5 968.5	11 770.0	308.6	1.07	98	96	18 753.0
1975 ASM....	(NA)	(NA)	204.0	2 569.7	137.1	260.6	1 565.4	5 156.8	5 386.2	10 548.1	296.7	1.11	100	94	18 302.2
1974 ASM....	(NA)	(NA)	217.2	2 522.9	151.4	293.9	1 599.4	4 889.1	5 087.8	9 749.2	376.2	1.09	106	102	19 844.8
1973 ASM....	(NA)	(NA)	211.6	2 324.2	149.6	296.8	1 487.9	4 186.6	4 220.8	8 274.1	296.8	1.06	104	102	19 897.9
1972 CENSUS.	2 621	1 026	200.0	2 025.0	137.0	272.1	1 256.9	3 700.0	3 430.0	7 074.4	193.8	1.05	98	98	19 028.7
1971 ASM....	(NA)	(NA)	192.4	1 829.0	130.3	253.1	1 099.3	3 367.5	2 948.1	6 339.5	146.3	1.05	94	94	18 363.1
1970 ASM....	(NA)	(NA)	203.2	1 823.3	139.0	274.2	1 101.5	3 341.5	2 938.0	6 252.1	165.6	1.06	100	99	19 217.2
1969 ASM....	(NA)	(NA)	217.1	1 822.6	152.0	303.5	1 137.1	3 404.5	2 997.4	6 336.0	171.4	1.08	106	103	20 035.5
1968 ASM....	(NA)	(NA)	217.4	1 725.3	148.8	296.9	1 054.2	3 156.9	2 849.1	5 975.0	156.4	1.11	107	100	19 527.6
1967 CENSUS.	2 531	1 015	216.5	1 628.8	149.6	296.6	1 004.9	2 982.5	2 717.1	5 671.8	187.6	1.12	106	99	19 323.2
1966 ASM....	(NA)	(NA)	211.2	1 572.5	146.3	297.4	985.3	2 929.5	2 686.9	5 543.5	170.7	1.11	103	98	19 024.5
1965 ASM....	(NA)	(NA)	202.8	1 447.8	140.7	285.5	910.3	2 640.1	2 425.6	5 026.6	115.1	1.13	99	92	18 010.2
1964 ASM....	(NA)	(NA)	195.5	1 332.4	134.4	271.9	830.0	2 423.1	2 126.8	4 512.6	111.7	1.13	96	89	17 268.5
1963 CENSUS.	2 405	877	193.8	1 271.9	133.3	266.5	784.1	2 237.2	(NA)	(NA)	96.4	1.14	95	87	16 958.4
MINNEAPOLIS-ST. PAUL, MINN.-WIS., SMSA															
1977 CENSUS.	3 861	1 349	216.9	3 331.3	127.4	245.6	1 562.4	6 408.0	7 407.6	13 645.1	353.3	1.11	100	100	19 596.9
1976 ASM....	(NA)	(NA)	196.7	2 712.8	118.1	229.0	1 377.7	5 565.6	6 570.0	12 032.6	287.4	1.05	91	96	18 753.0
1975 ASM....	(NA)	(NA)	214.4	2 725.9	117.7	224.7	1 267.9	4 927.1	5 930.5	11 004.9	244.6	1.17	99	94	18 302.2
1974 ASM....	(NA)	(NA)	223.5	2 571.1	132.6	255.9	1 300.0	5 224.8	5 729.2	10 739.6	271.5	1.13	103	102	19 844.8
1973 ASM....	(NA)	(NA)	215.4	2 283.3	127.1	244.7	1 152.1	4 530.3	4 699.6	9 084.9	179.6	1.08	99	102	19 897.9
1972 CENSUS.	3 214	1 233	199.0	2 048.0	118.4	230.9	1 012.7	3 734.8	3 943.0	7 632.1	171.5	1.05	92	98	19 028.7
1971 ASM....	(NA)	(NA)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	94	18 363.1
1970 ASM....	(NA)	(NA)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	99	19 217.2
1969 ASM....	(NA)	(NA)	221.9	1 855.1	132.9	269.1	940.3	3 485.1	3 596.7	7 042.8	164.1	1.11	102	103	20 035.5
1968 ASM....	(NA)	(NA)	208.3	1 656.1	129.3	262.8	866.7	3 233.6	3 165.0	6 363.2	164.7	1.07	96	100	19 527.6
1967 CENSUS.	2 696	1 093	203.7	1 524.9	124.7	250.0	784.2	2 819.4	2 885.3	5 625.1	144.3	1.05	94	99	19 323.2
1966 ASM....	(NA)	(NA)	186.1	1 348.3	116.6	236.2	721.1	2 548.4	2 640.3	5 117.4	128.6	.98	86	98	19 024.5
1965 ASM....	(NA)	(NA)	170.5	1 178.2	105.2	212.6	633.6	2 315.5	2 365.5	4 576.9	88.0	.95	79	92	18 010.2
1964 ASM....	(NA)	(NA)	169.4	1 145.5	103.3	207.7	595.3	2 117.9	2 221.3	4 324.9	103.0	.98	78	89	17 268.5
1963 CENSUS.	2 666	1 008	163.8	1 056.0	102.9	205.2	573.5	1 956.9	(NA)	(NA)	73.9	.97	76	87	16 958.4

(D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.
²Including central administrative offices and auxiliaries (for definition, see appendix B).
³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 2b. Selected Operating Ratios for the State and Selected Standard Metropolitan Statistical Areas: 1977 and Earlier Years

(Includes SCSA's and SMSA's with 40,000 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
WISCONSIN									
1977 CENSUS.....	13 679	71	1 956	6.30	58	77	31 042	44	22.28
1976 ASM.....	12 717	71	1 935	5.90	58	77	28 670	44	20.78
1975 ASM.....	11 750	71	1 917	5.46	58	78	25 026	47	18.43
1974 ASM.....	10 818	73	1 953	4.95	59	80	22 717	48	16.02
1973 ASM.....	10 090	73	2 007	4.54	58	79	20 318	50	13.81
1972 CENSUS.....	9 435	72	1 999	2.86	56	79	18 868	50	13.11
1971 ASM.....	8 810	71	1 959	4.00	55	77	17 667	50	12.65
1970 ASM.....	8 240	72	1 975	3.70	55	79	15 729	52	11.08
1969 ASM.....	7 828	74	2 000	3.48	55	78	15 474	51	10.51
1968 ASM.....	7 415	73	2 010	3.29	54	77	14 620	51	9.96
1967 CENSUS.....	6 985	73	2 015	3.09	55	78	13 594	51	9.29
1966 ASM.....	6 780	74	2 062	2.95	56	79	13 260	51	8.71
1965 ASM.....	6 469	74	2 053	2.83	56	79	12 495	52	8.24
1964 ASM.....	6 251	73	2 045	2.74	56	79	12 113	52	8.08
1963 CENSUS.....	6 022	73	2 032	2.66	(NA)	(NA)	11 614	52	7.80
MILWAUKEE-RACINE SCSA									
1977 CENSUS.....	14 823	68	1 938	6.92	49	73	31 948	46	24.40
1972 CENSUS.....	10 078	68	1 986	4.61	48	76	18 958	53	14.05
APPLETON-OSHKOSH SMSA									
1977 CENSUS.....	13 560	72	1 998	6.08	59	77	31 881	43	22.14
1976 ASM.....	12 477	72	1 954	5.77	60	78	27 181	46	19.30
1975 ASM.....	11 353	72	1 959	5.24	58	78	24 759	46	17.61
1974 ASM.....	10 485	74	2 018	4.78	59	78	23 798	44	15.90
1973 ASM.....	9 983	74	2 029	4.46	57	78	20 905	48	13.95
1972 CENSUS.....	9 435	74	2 053	4.12	56	78	18 849	50	12.42
MILWAUKEE SMSA									
1977 CENSUS.....	14 907	68	1 938	7.00	50	74	31 401	47	23.84
1976 ASM.....	13 651	68	1 913	6.52	51	74	29 176	47	22.50
1975 ASM.....	12 596	67	1 901	6.01	51	75	25 278	50	19.79
1974 ASM.....	11 616	68	1 941	5.44	52	78	22 510	52	16.64
1973 ASM.....	10 983	71	1 984	5.01	51	79	19 784	56	14.11
1972 CENSUS.....	10 125	69	1 986	4.62	48	77	18 500	55	13.60
1971 ASM.....	9 506	68	1 942	4.34	46	75	17 494	54	13.31
1970 ASM.....	8 973	68	1 973	4.02	47	76	16 444	55	12.19
1969 ASM.....	8 395	70	1 997	3.75	47	76	15 682	54	11.22
1968 ASM.....	7 936	68	1 995	3.55	48	77	14 521	55	10.63
1967 CENSUS.....	7 523	69	1 983	3.39	48	77	13 776	55	10.06
1966 ASM.....	7 446	69	2 033	3.31	48	76	13 871	54	9.85
1965 ASM.....	7 139	69	2 029	3.19	48	77	13 021	55	9.25
1964 ASM.....	6 815	69	2 023	3.05	47	77	12 394	55	8.91
1963 CENSUS.....	6 563	69	1 999	2.94	(NA)	(NA)	11 544	57	8.39
MINNEAPOLIS-ST. PAUL, MINN.-WIS., SMSA									
1977 CENSUS.....	15 355	59	1 928	6.36	54	79	29 537	52	26.09
1976 ASM.....	13 792	60	1 939	6.02	55	77	28 295	49	24.30
1975 ASM.....	12 714	55	1 909	5.64	54	79	22 981	55	21.93
1974 ASM.....	11 504	59	1 930	5.08	53	77	23 377	49	20.42
1973 ASM.....	10 600	59	1 925	4.71	52	77	21 032	50	18.51
1972 CENSUS.....	10 291	59	1 950	4.39	52	78	18 768	55	16.17
1971 ASM.....	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1970 ASM.....	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1969 ASM.....	8 360	60	2 025	3.49	51	77	15 706	53	12.95
1968 ASM.....	7 951	62	2 032	3.30	50	76	15 524	51	12.30
1967 CENSUS.....	7 486	61	2 005	3.14	51	78	13 841	54	11.28
1966 ASM.....	7 245	63	2 026	3.05	52	78	13 694	53	10.79
1965 ASM.....	6 910	62	2 021	2.98	52	77	13 581	51	10.89
1964 ASM.....	6 762	61	2 011	2.87	51	78	12 502	54	10.20
1963 CENSUS.....	6 447	63	1 994	2.79	(NA)	(NA)	11 947	54	9.54

Note: For qualifications to data, see footnotes on table 2a.

(D) Withheld to avoid disclosing operations of individual companies.

(NA) Not available.

(S) Withheld because estimate did not meet publication standards.

Table 3a. Summary Statistics for the State: 1977 and 1972

[For explanation of terms, see appendix B]

Item	Unit of measure	1977	1972
All establishments ¹ -----	number ----	8 678	7 845
With 1 to 19 employees -----	do -----	5 515	4 984
With 20 to 99 employees -----	do -----	2 116	1 877
With 100 employees or more -----	do -----	1 047	984
All employees, average for year ¹ -----	1,000 -----	535.0	500.5
Payroll for year, all employees ¹ -----	mil. dollars --	7 317.8	4 722.3
Production workers:			
Average for year -----	1,000 -----	381.0	360.5
March -----	do -----	367.8	342.4
May -----	do -----	374.9	352.0
August -----	do -----	395.2	377.0
November -----	do -----	385.3	370.6
Hours -----	millions -----	745.4	720.5
January to March -----	do -----	178.8	172.2
April to June -----	do -----	186.2	179.7
July to September -----	do -----	191.3	183.1
October to December -----	do -----	189.1	185.4
Wages -----	mil. dollars --	4 697.1	3 062.7
Cost of materials, etc. ² -----	do -----	22 362.9	11 970.1
Materials, parts, containers, etc., consumed -----	do -----	20 045.7	10 694.6
Resales -----	do -----	1 310.7	824.7
Fuels consumed -----	do -----	388.9	149.6
Purchased electric energy -----	do -----	299.8	142.8
Contract work -----	do -----	317.8	158.4
Value of shipments, including resales ² -----	do -----	38 725.3	21 245.5
Value of resales -----	do -----	1 580.2	1 038.0
Value added by manufacture -----	do -----	16 606.0	9 443.3
Manufacturers' inventories:			
Beginning of year -----	do -----	4 842.3	2 696.8
Finished products -----	do -----	1 600.1	964.0
Work in process -----	do -----	1 371.3	779.2
Materials, supplies, fuel, etc. -----	do -----	1 871.0	953.7
End of year -----	do -----	5 238.5	2 888.6
Finished products -----	do -----	1 705.3	1 017.6
Work in process -----	do -----	1 542.1	855.9
Materials, supplies, fuel, etc. -----	do -----	1 991.1	1 015.1
Capital expenditures for plant and equipment -----	do -----	1 268.1	562.6
New capital expenditures -----	do -----	1 184.4	535.3
New buildings and other structures -----	do -----	211.4	115.1
New machinery and equipment -----	do -----	973.1	420.2
Used capital expenditures -----	do -----	83.7	27.3

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies.

¹Including central administrative offices and auxiliaries (for definition, see appendix B).

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	^a Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	171.9	2
Beginning of year.....	9,302.8	1	Buildings and other structures.....	66.2	4
New capital expenditures.....	1,159.9	2	Machinery and equipment.....	105.7	2
Used capital expenditures.....	96.1	8			
Retirements.....	299.7	5	Depreciation charges during 1977:		
End of year.....	10,259.1	1	Total.....	617.1	1
Buildings and other structures:			Buildings and other structures.....	113.4	3
Beginning of year.....	2,672.2	1	Machinery and equipment.....	503.7	1
New capital expenditures.....	205.6	3			
Used capital expenditures.....	(28.9)	20	Supplemental labor costs:		
Retirements.....	45.4	13	Total.....	1,449.5	1
End of year.....	2,861.4	1	Legal costs.....	549.9	1
Machinery and equipment:			Voluntary costs.....	899.6	1
Beginning of year.....	6,630.6	1			
New capital expenditures.....	954.3	2	Purchased services:		
Automobiles, trucks, etc., for highway use...	132.2	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	141.1	(NA)	Buildings and other structures.....	(66.8)	30
All other.....	(S)	(NA)	Response coverage ratio (percent).....	61	(X)
New machinery and equipment, n.s.k.....	(S)	(NA)	Machinery.....	(348.1)	(A)
Used capital expenditures.....	67.2	7	Response coverage ratio (percent).....	63	(X)
Retirements.....	254.6	4	Cost of purchased communication services.....	(118.3)	(A)
End of year.....	7,397.5	1	Response coverage ratio (percent).....	61	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

Figures in parentheses have standard errors of 100 percent or more. (NA) Not available. n.s.k. Not specified by kind.

(S) Withheld because estimate did not meet publication standards. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972

[Includes cities with 450 manufacturing employees or more. For definitions of SCSEA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972			
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital ex- penditures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)							
Wisconsin -----	-	8 678	3 163	535.0	7 317.8	381.0	745.4	4 697.1	16 606.0	22 362.9	38 725.3	1 184.4	500.5	9 443.3	
STANDARD CONSOLIDATED STATISTICAL AREAS															
Milwaukee-Racine -----	-	3 264	1 288	231.3	3 428.3	156.2	302.8	2 094.8	7 389.5	7 034.5	14 297.3	444.7	226.1	4 286.4	
STANDARD METROPOLITAN STATISTICAL AREAS															
Appleton-Oshkosh -----	-	500	237	42.9	582.2	30.9	61.8	375.9	1 388.9	1 905.2	3 233.2	96.3	38.4	723.8	
Duluth-Superior, Minn.-Wis. -----	-	299	79	9.4	110.9	6.7	12.7	70.6	260.2	483.4	735.6	(D)	10.4	165.5	
Portion in Wisconsin -----	-	49	12	1.0	12.5	0.8	1.4	8.7	54.6	210.6	258.3	5.2	1.6	36.7	
Portion in Minnesota -----	-	250	67	8.3	98.4	5.9	11.3	62.0	205.6	272.7	477.3	(D)	8.8	128.8	
Eau Claire -----	-	177	57	8.7	114.4	6.5	13.5	85.1	271.5	428.6	688.8	19.0	5.2	141.4	
Green Bay -----	-	279	111	20.3	290.9	14.9	29.9	199.4	874.9	1 697.6	2 566.3	140.1	17.5	383.6	
Kenosha -----	-	145	44	17.7	246.2	13.1	21.4	170.2	416.6	1 058.0	1 480.3	14.6	15.8	382.5	
La Crosse -----	-	129	39	9.4	111.8	6.1	12.1	64.0	244.4	223.9	467.3	21.6	8.4	123.9	
Madison -----	-	436	132	18.2	264.5	12.3	24.4	160.3	536.7	882.7	1 414.2	34.3	16.2	300.0	
Milwaukee -----	-	2 859	1 141	204.1	3 042.5	138.7	268.8	1 882.5	5 408.8	6 272.7	12 554.3	389.1	200.0	3 700.0	
Minneapolis-St. Paul, Minn.-Wis. -----	-	3 861	1 349	216.9	3 331.3	127.4	245.6	1 562.4	6 408.0	7 407.6	13 645.1	353.3	199.0	3 734.8	
Portion in Wisconsin -----	-	63	23	2.1	24.9	1.5	3.1	15.4	67.6	76.8	142.4	3.1	1.8	38.1	
Portion in Minnesota -----	-	3 798	1 326	214.8	3 306.4	125.9	242.5	1 547.0	6 340.4	7 330.8	13 502.6	350.3	197.2	3 696.6	
Racine -----	-	405	147	27.2	385.8	17.5	34.0	212.3	980.7	761.8	1 743.0	55.5	25.8	589.6	
COUNTIES															
Adams -----	E1	13	6	0.4	4.5	0.3	0.6	3.1	10.7	16.5	27.1	0.9	0.2	2.2	
Ashland -----	E1	49	15	1.4	13.3	1.3	2.3	10.9	35.6	34.5	68.9	1.8	1.3	20.2	
Barron -----	-	76	28	3.3	31.1	2.7	5.2	22.8	77.7	173.2	249.9	9.7	2.6	38.8	
Bayfield -----	E3	31	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.1	
Brown -----	-	279	111	20.3	290.9	14.9	29.9	199.4	874.9	1 697.6	2 566.3	140.1	17.5	383.6	
Buffalo -----	-	23	2	0.2	2.1	0.2	0.3	1.4	9.3	14.4	23.6	0.2	0.2	3.9	
Burnett -----	-	24	9	0.8	5.2	0.5	0.9	3.8	11.5	17.0	28.8	1.1	0.4	4.4	
Calumet -----	-	59	24	5.0	64.0	4.1	7.8	49.3	173.6	251.0	420.2	10.5	4.5	87.2	
Chippewa -----	-	103	33	4.1	43.2	2.8	6.0	30.3	111.4	246.5	353.9	8.0	5.7	118.1	
Clark -----	-	97	18	1.6	15.4	1.3	2.4	12.1	36.2	119.2	154.5	2.5	1.6	21.7	
Columbia -----	-	85	33	3.4	32.4	2.8	5.4	22.8	75.0	105.8	175.6	3.6	3.1	61.5	
Crawford -----	-	33	7	0.9	9.7	0.7	1.4	7.3	53.8	53.2	106.6	1.5	0.6	20.5	
Dane -----	-	436	132	18.2	264.5	12.3	24.4	160.3	536.7	882.7	1 414.2	34.3	16.2	300.0	
Dodge -----	-	144	58	8.7	107.1	6.8	13.2	75.5	277.6	309.3	584.4	11.6	8.8	145.4	
Door -----	-	48	14	3.5	39.2	3.1	5.7	30.0	112.0	94.4	207.1	7.3	1.6	22.2	
Douglas -----	-	49	12	1.0	12.5	0.8	1.4	8.7	54.6	210.6	258.3	5.2	1.6	36.7	
Dunn -----	-	35	9	0.9	9.5	0.8	1.5	7.1	26.8	53.7	79.3	2.0	0.6	13.8	
Eau Claire -----	-	74	24	4.7	71.2	3.7	7.5	54.8	160.2	182.1	335.0	11.0	5.2	141.7	
Florence -----	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Fond du Lac -----	-	139	60	10.8	139.1	7.6	14.6	87.7	377.8	625.4	1 000.9	13.5	10.8	237.1	
Forest -----	E1	40	4	0.6	5.3	0.5	0.8	4.0	11.2	9.5	20.5	0.9	0.7	7.6	
Grant -----	E1	78	20	2.0	16.9	1.6	3.1	12.2	32.0	89.7	120.9	2.8	1.2	16.9	
Green -----	-	64	20	2.2	21.2	1.9	3.5	16.0	63.9	127.2	189.3	4.9	2.1	40.7	
Green Lake -----	-	52	20	2.4	22.6	2.0	3.9	16.4	53.2	46.3	99.3	2.9	2.0	29.3	
Iowa -----	E1	33	5	0.3	3.0	0.3	0.5	2.4	9.3	17.3	26.5	0.4	0.4	7.7	
Iron -----	E2	16	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	2.0	
Jackson -----	E4	21	6	0.6	6.1	0.5	1.0	4.0	13.8	24.1	37.1	(D)	0.6	11.0	
Jefferson -----	-	129	56	9.9	128.4	5.9	13.5	75.5	284.4	393.8	679.2	13.2	8.6	171.5	
Juneau -----	-	37	14	1.4	12.8	1.2	2.3	9.5	27.8	57.9	85.4	2.8	1.2	15.1	
Kenosha -----	-	145	44	17.7	246.2	13.1	21.4	170.2	416.6	1 058.0	1 480.3	14.6	15.8	382.5	
Kewaunee -----	E1	41	12	1.2	13.1	1.0	1.9	9.7	25.6	45.4	70.9	0.9	1.9	25.7	
La Crosse -----	-	129	39	9.4	111.8	6.1	12.1	64.0	244.4	223.9	467.3	21.6	8.4	123.9	
Lafayette -----	E2	32	4	0.3	2.6	0.2	0.4	1.6	4.6	23.3	28.0	0.4	0.1	3.8	
Langlade -----	E1	50	16	1.3	11.2	1.1	2.0	8.5	28.4	43.6	72.0	1.3	1.2	15.8	
Lincoln -----	-	63	22	3.2	35.5	2.5	4.9	25.1	80.1	90.6	170.0	(D)	3.0	48.0	
Manitowoc -----	-	149	70	14.7	167.7	10.3	20.8	108.7	364.8	395.5	756.8	31.7	13.3	194.7	
Marathon -----	-	212	71	13.2	182.7	9.4	19.7	121.0	384.6	779.3	1 155.8	36.8	11.5	194.3	
Marinette -----	-	110	33	6.4	79.9	5.0	9.8	57.5	164.4	246.3	408.9	40.0	4.6	90.5	
Marquette -----	-	18	6	0.4	3.8	0.4	0.7	2.7	8.9	25.5	34.0	0.6	0.5	4.9	
Menominee -----	-	8	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Milwaukee -----	-	1 792	735	153.6	2 348.0	103.8	200.7	1 463.6	4 954.1	4 797.6	9 660.7	295.2	159.2	2 939.8	
Monroe -----	-	45	15	2.1	18.7	1.7	3.1	12.2	52.3	71.8	118.5	2.1	1.3	19.3	
Oconto -----	-	70	26	2.2	22.8	1.8	3.7	16.4	46.8	82.4	141.4	6.0	2.5	41.8	
Oneida -----	-	51	14	2.1	28.8	1.6	3.2	20.8	49.1	90.7	137.9	4.8	1.6	31.5	
Outagamie -----	-	179	77	16.7	223.2	12.3	25.3	147.6	576.7	901.8	1 456.1	50.6	14.2	281.4	
Ozaukee -----	-	172	74	9.6	122.8	7.1	13.8	80.9	238.5	283.0	520.1	14.1	8.2	153.8	
Pepin -----	-	11	6	0.3	2.5	0.3	0.4	1.9	8.7	18.2	27.0	0.3	0.2	2.9	
Pierce -----	-	36	9	1.0	11.4	0.7	1.6	7.2	30.3	51.7	81.5	3.8	0.8	27.5	
Polk -----	-	68	22	1.8	17.7	1.5	2.9	12.8	46.5	63.3	108.5	9.2	1.4	22.6	
Portage -----	-	66	28	3.5	43.2	2.7	5.5	30.1	86.7	121.4	206.8	11.3	2.5	40.1	
Price -----	E2	47	12	1.1	11.4	0.9	1.6	7.8	29.6	32.1	65.1	3.0	1.6	25.7	
Racine -----	-	405	147	27.2	385.8	17.5	34.0	212.3	980.7	761.8	1 743.0	55.5	25.8	589.6	
Richland -----	-	31	9	0.8	7.5	0.6	1.6	5.6	30.7	65.7	85.0	0.8	0.7	12.8	
Rock -----	-	186	62	20.3	321.2	15.1	30.5	223.3	942.0	2 013.3	2 951.8	27.1	18.0	427.2	
Rusk -----	-	40	14	1.3	13.4	1.2	2.4	10.9	34.3	49.0	82.5	2.1	0.9	10.8	
St. Croix -----	-	63	23	2.1	24.9	1.5	3.1	15.4	67.6	76.8	142.4	3.1	1.8	38.1	
Sauk -----	-	81	29	3.5	34.3	2.5	5.3	20.7	93.0	168.4	259.0	5.6	4.9	76.9	
Sawyer -----	E3	42	4	0.4	3.3	0.3	0.6	2.8	6.6	4.9	11.4	0.3	0.2	2.6	
Shawano -----	-	76	22	1.6	16.7	1.2	2.5	11.1	45.9	122.8	168.0	2.8	1.4	18.9	
Sheboygan -----	-	222	109	17.4	222.5	12.5	26.1	149.2	489.8	644.2	1 121.0	25.0	16.7	286.5	
Taylor -----	-	36	13	1.6	18.6	1.4	2.9	13.3	55.9	42.0	96.4	3.6	1.2	15.0	

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area		1977										1972			
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)							
E ¹															
COUNTIES—Con.															
		57	14	2.1	20.4	1.8	3.6	16.4	45.2	181.4	223.2	3.4	1.5	23.4	
	E3	47	10	0.6	5.3	0.5	0.8	3.9	19.6	29.0	48.0	0.8	0.5	10.2	
	E1	35	7	0.6	4.6	0.5	0.9	3.3	10.6	11.1	21.7	0.6	0.6	8.2	
		165	52	6.3	69.1	5.0	9.7	48.9	165.4	208.1	371.1	13.7	5.5	89.4	
	E1	33	5	0.5	4.6	0.4	0.8	3.3	8.1	20.3	28.0	0.6	0.3	3.1	
		167	56	10.9	131.9	7.5	14.2	77.0	303.5	342.1	638.1	11.8	10.0	176.1	
		728	276	30.0	439.8	20.2	40.0	261.0	912.8	850.0	1 735.4	68.0	22.7	430.3	
		93	34	3.8	37.8	2.8	5.7	26.1	81.2	130.0	207.8	5.9	3.4	51.5	
	E1	21	7	0.3	3.2	0.3	0.5	2.0	6.8	11.4	18.2	0.2	0.3	3.6	
		262	136	21.3	295.0	14.6	28.7	179.0	618.6	752.4	1 356.9	35.3	19.7	355.3	
		122	51	11.4	175.3	8.1	16.0	108.6	343.4	557.1	900.2	42.7	10.2	178.6	
CITIES															
		10	5	0.5	4.6	0.3	0.6	3.4	9.4	14.2	23.9	0.4	1.0	12.4	
		27	12	0.8	8.0	0.7	1.3	6.2	19.4	36.3	55.8	1.0	0.9	10.2	
		92	32	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.3	146.1	
		23	12	1.0	9.6	0.8	1.5	7.8	25.5	26.2	51.1	1.5	0.9	14.6	
		23	13	1.7	14.8	1.4	2.7	10.2	43.7	35.2	77.6	2.3	3.7	52.6	
		32	13	2.5	25.8	2.1	4.1	19.7	80.7	70.3	150.1	2.0	2.3	34.9	
		55	19	6.9	93.7	4.3	8.2	49.6	230.8	209.5	440.4	7.2	6.9	92.7	
		26	11	1.7	16.0	1.4	2.7	11.7	35.5	22.7	58.0	(D)	1.3	16.3	
	E3	13	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
		9	4	0.8	7.0	0.7	1.4	5.9	8.3	31.3	39.8	0.6	(NA)	(NA)	
		7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
		70	30	3.2	49.9	1.9	4.0	26.6	78.9	74.4	152.2	4.3	2.2	51.7	
		21	10	1.8	25.7	1.2	2.2	15.2	51.8	31.9	82.1	5.5	1.4	29.9	
		32	14	2.1	23.6	1.7	3.4	17.2	115.5	89.3	203.4	3.6	(D)	(D)	
		39	16	2.6	33.3	2.0	3.9	24.5	60.2	71.7	130.5	4.9	2.1	35.2	
		16	7	0.7	8.4	0.6	1.3	6.6	36.0	40.9	77.0	(D)	0.8	16.3	
		47	17	2.4	25.1	1.5	3.4	16.4	68.2	124.9	189.9	4.3	1.5	25.9	
		18	8	0.8	9.2	0.5	1.0	4.9	20.2	20.7	38.2	0.6	1.2	16.3	
		16	8	0.5	5.2	0.4	0.8	3.8	10.4	9.6	19.4	0.6	0.5	6.8	
		1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
		39	22	7.8	128.0	6.0	11.1	95.0	191.1	352.4	541.9	13.1	7.0	135.5	
		22	8	2.0	22.4	1.5	3.0	15.2	57.4	58.9	112.8	7.8	2.0	34.6	
		43	13	1.5	22.7	1.1	2.4	16.5	49.4	90.4	139.2	4.2	1.2	32.5	
		63	25	5.0	75.9	3.9	7.8	58.3	173.4	191.4	357.5	(D)	8.0	213.7	
		14	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	15.1	
		24	7	0.9	8.6	0.7	1.4	7.6	26.3	21.4	47.3	0.8	1.0	19.2	
		14	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
		49	26	5.0	68.7	3.6	7.1	45.2	146.2	226.8	371.3	8.0	5.3	94.9	
		24	12	2.0	26.6	1.3	2.5	16.1	52.9	72.6	122.6	2.3	2.4	37.3	
		34	10	0.6	8.3	0.4	0.8	4.5	15.5	22.1	37.3	1.5	(NA)	(NA)	
		53	27	5.7	89.0	3.7	7.7	52.9	160.3	185.3	335.4	8.7	4.1	80.3	
		43	21	3.2	39.1	2.6	5.1	28.4	79.3	84.9	163.2	3.8	2.8	50.7	
		161	69	14.3	208.2	10.5	20.9	144.4	678.5	1 204.8	1 880.7	129.5	13.7	304.1	
		16	10	0.5	6.8	0.4	0.7	4.1	15.3	9.5	24.7	1.0	(NA)	(NA)	
		28	11	2.8	31.5	2.0	3.6	20.0	74.8	78.8	150.8	3.8	2.0	43.2	
		8	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
		13	6	0.5	5.4	0.3	0.7	3.2	14.0	23.6	36.7	1.3	(D)	(D)	
		75	27	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
		18	8	2.2	27.3	1.3	2.6	13.1	84.8	138.4	233.7	2.2	2.1	65.4	
		12	8	2.5	37.9	1.9	4.0	27.1	84.4	142.1	224.4	(D)	2.4	49.7	
		105	34	16.0	225.5	12.0	19.2	158.5	372.1	1 010.0	1 389.3	12.5	14.5	347.4	
		14	5	0.6	6.9	0.5	1.1	5.3	12.7	10.3	22.9	0.2	0.7	9.5	
		19	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	7.8	
		5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
		84	27	7.8	97.3	4.8	9.3	53.3	210.1	194.5	406.8	17.8	6.8	107.0	
		14	7	0.6	6.1	0.5	1.1	4.9	16.1	21.4	37.8	1.4	(NA)	(NA)	
	E2	28	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	8.1	
		15	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	18.7	
		210	82	11.3	181.3	7.3	14.3	108.6	333.5	598.1	930.8	16.9	11.6	204.9	
		84	45	9.6	113.1	6.5	13.3	73.4	244.6	256.5	499.9	27.0	8.5	117.7	
		31	14	3.1	41.0	2.2	4.5	27.9	87.2	139.1	226.1	33.2	2.3	49.0	
		57	24	2.8	34.2	2.3	4.5	24.3	78.4	149.7	227.3	3.8	(D)	(D)	
		20	11	2.0	25.2	1.5	2.9	17.8	59.1	46.7	102.5	2.1	1.6	30.2	
		19	8	1.3	16.2	1.1	2.4	11.4	50.1	34.6	83.2	3.2	1.0	12.1	
		36	20	4.5	72.7	2.6	5.2	37.6	117.3	156.3	269.9	6.3	3.6	66.6	
	E1	122	51	4.2	55.3	2.9	5.6	33.4	98.9	95.9	191.9	5.5	3.1	53.4	
		17	5	0.7	7.8	0.6	1.2	6.0	23.3	42.3	64.6	(D)	(D)	(D)	
		26	8	0.8	10.2	0.5	0.9	5.4	22.4	16.9	39.2	1.3	(NA)	(NA)	
		36	15	2.3	23.3	1.8	3.5	16.2	45.6	59.3	104.3	1.6	2.3	26.0	
		36	8	1.2	13.5	0.9	1.8	8.5	37.5	26.0	83.2	3.9	0.9	20.8	
		1 192	485	91.4	1 397.6	80.5	119.1	846.3	2 736.6	2 680.9	5 360.4	182.2	106.3	1 898.2	
		32	13	1.5	14.3	1.3	2.4	10.9	41.5	95.9	135.8	4.1	1.5	32.2	
		52	34	6.1	91.6	4.3	8.8	59.5	214.2	251.1	462.1	14.3	5.7	120.6	
		18	4	0.6	5.0	0.5	0.8	4.4	11.4	14.2	24.9	0.5	(NA)	(NA)	
		108	50	4.3	65.7	3.0	5.9	41.0	143.1	109.4	247.3	6.6	2.8	68.8	
		13	7	2.2	27.7	1.9	3.4	22.5	54.0	101.2	154.9	1.1	2.3	36.9	
		20	9	2.0	24.4	1.5	2.8	14.6	68.1	150.1	216.6	(D)	1.3	28.8	
		14	6	0.9	12.1	0.6	1.3	7.1	30.4	27.0	56.9	0.7	0.9	26.6	
		59	28	5.0	82.8	3.6	7.3	56.5	412.9	385.0	800.4	14.5	1.7	34.4	
		40	17	1.8	20.5	1.3	2.7	14.5	65.2	99.8	162.4	2.2	1.5	30.5	

See footnotes at end of table.

Table 4. All Manufacturing Statistics for the State, Standard Metropolitan Statistical Areas, Counties, and Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 manufacturing employees or more. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

Geographic area	E ¹	1977										1972			
		All establishments ²		All employees ²		Production workers			Value added by manu- facture (million dollars)	Cost of materi- als ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)	
		Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil- lions)	Wages (million dollars)							
CITIES—Con.															
Oconto	-	19	9	0.9	8.4	0.7	1.7	6.2	16.9	24.1	41.5	0.5	(D)	(D)	
Oshkosh	-	117	54	8.0	99.1	5.6	11.1	62.5	215.5	252.9	463.4	7.7	7.5	123.5	
Peshigo	-	17	8	0.8	10.9	0.7	1.4	8.6	23.7	27.6	51.0	1.2	(D)	(D)	
Pewaukee	-	17	10	0.8	11.5	0.6	1.1	7.3	29.9	16.2	45.3	2.4	0.6	8.3	
Plover	-	7	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Plymouth	-	20	6	1.4	17.3	1.1	2.1	12.3	67.6	183.1	255.3	1.1	1.6	30.1	
Portage	-	24	8	1.3	11.0	1.2	2.2	8.5	21.8	33.6	51.6	1.9	1.1	23.6	
Port Washington	-	21	10	1.7	23.9	1.1	2.0	13.1	45.9	56.4	103.2	2.9	1.9	43.5	
Prairie du Chien	-	15	6	0.8	9.2	0.6	1.3	8.8	53.8	44.9	97.8	1.5	(D)	(D)	
Racine	-	271	94	17.3	241.6	10.2	19.4	115.0	372.5	294.0	663.2	29.6	17.8	271.7	
Reedsburg	-	17	7	1.2	11.7	0.9	1.9	8.4	34.0	78.7	112.4	2.1	1.1	20.0	
Rhineland	-	26	11	1.9	26.5	1.4	2.9	19.4	43.6	85.1	127.1	4.1	1.5	29.8	
Rice Lake	-	26	12	1.5	13.9	1.2	2.4	10.0	28.6	39.0	86.9	3.6	1.1	14.7	
Richland Center	-	24	7	0.7	6.7	0.6	1.5	5.2	29.2	61.3	89.2	(D)	0.6	11.8	
Ripon	-	21	13	1.9	20.1	1.5	2.8	12.6	55.2	73.7	129.7	2.5	2.3	33.0	
Rothschild	-	7	6	1.1	16.4	0.7	1.5	10.9	29.8	53.9	82.8	(D)	(D)	(D)	
St. Francis	-	21	7	0.5	4.9	0.4	0.8	3.5	10.0	10.3	19.9	(D)	(NA)	(NA)	
Schofield	-	27	10	1.8	30.7	1.1	2.3	16.4	65.3	58.4	149.0	2.7	1.4	30.5	
Shawano	-	34	11	0.9	10.3	0.7	1.4	6.4	17.7	30.7	47.8	1.7	0.9	8.5	
Sheboygan	-	123	65	7.9	94.0	5.8	11.3	59.1	185.3	279.1	463.9	13.5	8.1	133.3	
Sheboygan Falls	-	20	8	0.8	10.3	0.6	1.2	7.2	21.0	30.7	50.6	1.8	1.1	20.6	
South Milwaukee	-	26	9	4.2	60.9	2.5	4.9	33.8	186.5	124.5	309.4	9.1	4.0	71.7	
Sparta	-	18	9	1.4	12.6	1.1	2.1	7.7	21.8	33.9	56.1	1.5	0.8	12.3	
Stevens Point	-	41	19	2.1	24.3	1.6	3.3	16.8	47.9	53.7	101.3	(D)	1.8	25.8	
Stoughton	-	26	8	0.9	10.0	0.7	1.2	6.6	27.9	39.1	66.8	1.9	0.6	14.6	
Sturgeon Bay	-	33	14	3.5	38.8	3.1	5.6	28.6	111.4	93.2	205.3	7.2	1.6	21.4	
Sun Prairie	-	15	5	0.7	8.4	0.6	1.2	6.5	22.8	17.8	40.4	(D)	0.6	11.0	
Superior	-	32	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Tomah	-	9	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
Two Rivers	-	25	11	4.1	43.8	3.0	5.8	27.7	90.0	73.1	163.1	3.4	4.0	62.7	
Union Grove	-	11	6	0.5	6.2	0.4	0.8	3.8	11.5	8.7	20.3	1.0	(NA)	(NA)	
Watertown	-	42	18	3.0	39.0	2.1	4.1	20.9	79.7	106.2	162.5	4.3	2.1	36.2	
Waukesha	-	138	54	10.0	153.6	6.8	13.5	97.1	355.1	297.7	644.3	37.8	8.7	162.2	
Waupaca	-	14	8	1.2	15.3	1.0	2.3	12.2	37.0	40.6	77.0	(D)	0.9	13.7	
Waupun	-	18	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	23.4	
Wausau	-	84	36	5.5	69.2	4.0	8.0	45.4	140.0	192.4	331.2	7.0	5.7	85.9	
Wauwatosa	-	88	35	10.1	150.3	8.5	16.0	118.8	293.6	222.0	513.4	11.3	8.7	193.1	
West Allis	-	150	60	14.5	221.1	9.2	16.2	124.4	490.1	411.7	883.5	29.9	13.6	261.6	
West Bend	-	47	15	5.4	64.9	3.5	6.8	36.4	149.3	136.8	282.0	3.8	5.6	96.5	
West Milwaukee	-	48	29	10.2	155.6	6.6	12.7	97.8	344.8	335.6	689.4	16.6	11.1	214.1	
Whitewater	-	18	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	9.6	
Wisconsin Rapids	-	32	13	4.7	74.3	3.4	6.6	47.6	162.8	238.7	399.4	(D)	(D)	(D)	

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E10—100 percent.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			E ¹	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	All Industries -----	-		8 678 3 163	535.0	7 317.8	381.0	745.4	4 897.1	16 606.0	22 362.9	38 725.3	1 184.4	500.5	9 443.3
20	Food and kindred products -----	-		1 205 459	59.8	777.0	44.0	88.0	534.8	2 304.0	6 626.3	8 929.0	179.5	56.5	1 326.2
201	Meat products -----	-		138 54	11.9	180.4	9.4	18.5	136.2	378.5	1 469.4	1 840.2	23.1	9.6	189.3
2011	Meat packing plants -----	-		77 25	8.5	142.1	6.8	13.6	109.5	290.9	1 256.8	1 542.8	14.8	7.2	158.0
2013	Sausages and other prepared meats -----	-		50 23	2.2	28.8	1.6	3.2	19.5	62.1	155.9	216.3	4.0	1.3	19.9
2016	Poultry dressing plants -----	-		6 2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	9.9
2017	Poultry and egg processing --	E2		5 4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
202	Dairy products -----	-		547 166	14.9	177.3	11.6	23.4	128.7	624.5	3 229.3	3 840.4	40.4	15.3	392.3
2021	Creamery butter -----	-		21 9	0.4	5.6	0.3	0.6	3.3	23.2	201.9	224.1	2.2	0.4	12.1
2022	Cheese, natural and processed -----	-		378 99	9.5	103.3	8.0	15.7	82.1	368.4	2 071.0	2 429.9	24.1	8.8	207.1
2023	Condensed and evaporated milk -----	-		47 29	2.3	31.8	1.8	4.0	23.2	136.5	503.1	637.7	5.1	2.1	91.6
2024	Ice cream and frozen desserts -----	-		17 4	0.4	4.2	0.3	0.5	2.5	11.4	18.6	29.5	0.9	0.5	7.7
2026	Fluid milk -----	-		84 25	2.3	32.5	1.2	2.5	17.6	85.0	434.7	519.2	8.0	3.4	73.8
203	Preserved fruits and vegetables -----	-		126 91	11.0	94.3	9.3	18.2	72.7	293.2	407.6	700.7	16.6	10.5	186.9
2032	Canned specialties -----	-		2 1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2033	Canned fruits and vegetables -----	-		80 68	7.4	63.1	6.7	13.3	52.1	213.4	305.1	518.5	10.3	7.8	138.0
2034	Dehydrated fruits, vegetables, and soups -----	-		3 2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2035	Pickles, sauces, and salad dressings -----	-		21 11	1.4	8.9	0.9	1.7	6.2	36.5	32.6	68.7	1.9	CC	(D)
2037	Frozen fruits and vegetables -----	-		4 2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2038	Frozen specialties -----	E1		16 7	1.5	15.6	1.1	2.1	9.3	37.3	43.5	80.8	(D)	1.2	29.0
204	Grain mill products -----	-		101 26	2.2	25.7	1.3	2.5	14.3	124.8	298.6	423.8	5.4	2.0	86.5
2041	Flour and other grain mill products -----	E1		10 4	0.5	6.7	0.3	0.6	3.8	26.1	73.1	99.3	3.1	BB	(D)
2045	Blended and prepared flour --	E1		7 2	0.2	2.0	0.1	0.2	0.8	4.9	9.6	14.5	0.1	(NA)	(NA)
2047	Dog, cat, and other pet food -----	-		19 7	0.6	5.4	0.4	0.8	4.2	51.3	58.0	110.0	0.9	CC	(D)
2048	Prepared feeds, n.e.c. -----	-		65 13	0.9	11.6	0.5	1.0	5.4	42.5	157.9	200.0	1.3	1.0	35.9
205	Bakery products -----	-		61 28	4.9	50.3	2.6	5.3	25.5	118.9	89.2	208.5	4.4	4.6	70.6
2051	Bread, cake, and related products -----	-		53 24	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2052	Cookies and crackers -----	-		8 4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
206	Sugar and confectionery products -----	-		25 10	1.5	15.8	1.2	2.3	10.6	118.3	158.1	273.1	5.0	1.4	42.5
2065	Confectionery products -----	-		20 7	0.6	4.9	0.5	0.9	3.3	16.1	17.5	33.1	(D)	0.7	10.8
2066	Chocolate and cocoa products -----	-		3 3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
207	Fats and oils -----	-		10 3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	5.1
2077	Animal and marine fats and oils -----	-		9 3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
208	Beverages -----	-		119 48	11.0	206.7	6.8	14.3	128.3	547.7	851.5	1 423.2	79.4	11.2	317.7
2082	Malt beverages -----	-		10 9	7.9	164.2	5.2	11.1	109.1	409.4	549.8	964.7	70.6	FF	(D)
2083	Malt -----	-		13 7	0.6	10.5	0.4	0.9	7.3	46.1	168.5	232.5	2.0	CC	(D)
2086	Bottled and canned soft drinks -----	E1		83 27	2.3	30.1	1.0	2.1	10.6	84.4	125.1	210.2	5.4	2.4	44.4
209	Miscellaneous foods and kindred products -----	-		78 33	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	35.4
2092	Fresh or frozen packaged fish -----	-		17 4	0.2	1.5	0.2	0.3	1.2	3.5	11.0	14.5	0.2	(NA)	(NA)
2099	Food preparations, n.e.c. -----	-		52 27	1.9	21.4	1.5	2.7	15.0	84.2	87.5	170.1	4.2	1.4	32.6
22	Textile mill products --	-		50 24	4.7	47.1	3.9	7.7	34.2	114.6	109.7	220.0	7.9	6.4	103.2
225	Knitting mills -----	-		16 13	3.1	28.9	2.6	5.1	21.2	62.0	41.4	99.7	1.4	4.8	71.8
2252	Hosiery, n.e.c. -----	-		2 2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2253	Knit outerwear mills -----	-		8 7	2.0	17.6	1.7	3.3	12.6	38.7	19.3	55.3	0.6	0.9	10.2
2257	Circular knit fabric mills -----	-		5 4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
227	Floor covering mills -----	-		1 1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2279	Carpets and rugs, n.e.c. -----	-		1 1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
228	Yarn and thread mills -----	-		5 4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2283	Wool yarn mills -----	-		4 4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
229	Miscellaneous textile goods ---	-		19 6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	18.2
2291	Felt goods, except woven felts and hats -----	-		3 1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2295	Coated fabrics, not rubberized -----	-		5 1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2297	Nonwoven fabrics -----	-		3 2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E1	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expend- itures (million dollars)	All employ- ees ² (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber ² (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
23	Apparel and other textile products -----	-	144	64	7.3	55.9	5.8	10.5	38.7	115.2	131.0	245.6	3.3	7.4	74.6
2311	Men's and boys' suits and coats -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
232	Men's and boys' furnishings ---	-	17	14	2.4	17.7	1.7	3.0	11.6	37.7	61.9	99.8	(D)	1.7	18.6
2321	Men's and boys' shirts and nightwear -----	-	4	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2322	Men's and boys' underwear ---	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2328	Men's and boys' work clothing -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2329	Men's and boys' clothing, n.e.c. -----	-	10	8	0.9	7.4	0.8	1.3	5.1	11.6	9.1	19.8	0.1	CC	(D)
233	Women's and misses' outerwear -----	-	21	13	1.7	14.0	1.4	2.5	9.5	30.4	24.2	54.5	(D)	1.6	15.5
2335	Women's and misses' dresses -----	-	8	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2337	Women's and misses' suits and coats -----	-	6	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2339	Women's and misses' outerwear, n.e.c. -----	E2	6	3	0.2	1.3	0.2	0.3	0.9	2.5	0.5	3.0	(D)	CC	(D)
234	Women's and children's undergarments -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2341	Women's and children's underwear -----	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
235	Hats, caps, and millinery -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2352	Hats and caps, except millinery -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
236	Children's outerwear -----	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.5	4.3
2361	Children's dresses and blouses -----	-	3	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
238	Miscellaneous apparel and accessories -----	-	14	7	0.4	2.2	0.3	0.7	1.6	5.1	3.0	8.0	(D)	0.4	3.4
2381	Fabric dress and work gloves -----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products -----	E1	77	21	1.6	11.7	1.3	2.3	8.3	23.6	28.4	52.0	(D)	1.9	18.8
2391	Curtains and draperies -----	E1	20	3	0.2	1.5	0.2	0.3	1.1	2.6	3.3	6.0	0.1	0.2	1.5
2394	Canvas and related products -----	E1	23	5	0.3	2.5	0.2	0.4	1.7	4.3	3.5	7.8	0.1	0.2	1.5
2399	Fabricated textile products, n.e.c. -----	-	14	8	0.8	6.2	0.7	1.3	4.5	13.8	16.5	30.2	0.3	1.3	12.9
24	Lumber and wood products -----	-	903	202	22.3	236.4	19.0	37.9	179.3	496.3	585.3	1 073.4	33.6	18.4	245.7
2411	Logging camps and logging contractors -----	E4	314	11	1.2	10.9	1.1	1.5	9.0	24.3	30.0	54.0	3.4	1.3	15.0
242	Sawmills and planing mills ----	E1	215	44	3.3	28.5	2.9	5.8	23.0	58.7	61.8	120.5	9.4	2.2	26.9
2421	Sawmills and planing mills, general -----	E1	193	31	2.4	21.8	2.1	4.2	17.4	47.7	51.2	98.8	7.9	1.5	20.4
2426	Hardwood dimension and flooring -----	-	17	8	0.7	4.9	0.6	1.1	4.0	8.8	8.5	16.8	(D)	0.5	3.9
2429	Special product sawmills, n.e.c. -----	-	5	5	0.2	1.8	0.2	0.4	1.6	2.1	2.1	4.9	(D)	0.3	2.7
243	Millwork, plywood, and structural members -----	-	169	68	9.2	99.4	7.9	16.2	74.7	200.5	239.0	431.5	7.1	8.6	104.1
2431	Millwork -----	-	73	35	5.6	66.2	4.7	10.0	49.0	137.9	154.4	286.1	5.0	5.9	69.0
2434	Wood kitchen cabinets -----	-	60	12	1.2	12.5	1.0	2.0	9.3	21.3	21.9	42.5	0.6	0.4	4.7
2435	Hardwood veneer and plywood -----	-	20	16	2.2	18.8	1.9	3.8	15.2	37.4	56.0	92.2	1.2	EE	(D)
2439	Structural wood members, n.e.c. -----	-	16	5	0.2	2.0	0.2	0.3	1.2	3.9	6.7	10.6	0.2	(NA)	(NA)
244	Wood containers -----	E1	81	29	1.8	16.2	1.6	3.0	12.5	26.2	29.3	55.3	1.8	1.5	13.4
2441	Nailed wood boxes and shook -----	E2	13	6	0.4	2.7	0.3	0.6	2.2	4.0	4.7	8.6	(D)	0.4	2.9
2448	Wood pallets and skids -----	E1	60	19	1.1	9.8	1.0	1.9	7.6	16.5	19.5	36.0	1.2	0.7	6.2
2449	Wood containers, n.e.c. -----	-	8	4	0.3	3.7	0.3	0.5	2.7	5.6	5.1	10.7	(D)	0.5	4.3
245	Wood buildings and mobile homes -----	-	33	25	4.4	57.6	3.5	7.7	43.4	137.4	174.7	310.2	6.1	2.7	53.2
2451	Mobile homes -----	-	11	9	1.3	16.1	1.1	2.2	12.0	35.4	57.0	92.4	0.7	1.5	28.7
2452	Prefabricated wood buildings -----	-	22	16	3.1	41.5	2.4	5.5	31.3	102.0	117.7	217.7	5.4	1.3	24.6
249	Miscellaneous wood products --	-	91	25	2.4	23.9	2.0	3.8	16.7	51.3	50.8	102.0	5.7	2.1	33.0
2492	Particleboard -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2499	Wood products, n.e.c. -----	-	85	20	2.0	20.2	1.7	3.3	14.2	42.6	36.7	79.5	3.7	1.7	25.6

See footnotes at end of table.

**Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.**

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E1	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
25	Furniture and fixtures -	-	169	74	9.0	92.6	7.1	13.7	62.4	211.9	182.7	390.9	8.9	5.8	126.8
251	Household furniture -----	-	70	33	4.6	43.5	3.6	6.9	29.8	90.2	81.1	169.3	(D)	4.4	54.3
2511	Wood household furniture ---	-	38	21	2.8	26.3	2.3	4.3	19.6	50.1	44.6	94.2	(D)	2.4	26.0
2512	Upholstered household furniture -----	-	10	6	1.3	12.6	0.9	1.8	7.0	26.9	18.7	44.8	(D)	1.5	21.9
2514	Metal household furniture ---	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2515	Mattresses and bedsprings --	-	13	3	0.2	2.5	0.2	0.3	1.6	8.2	8.8	17.0	(D)	(NA)	(NA)
252	Office furniture -----	-	8	6	1.1	12.5	0.8	1.6	8.5	30.6	16.0	45.8	(D)	CC	(D)
2522	Metal office furniture -----	-	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2531	Public building and related furniture -----	-	18	8	0.7	7.9	0.6	1.1	5.3	23.1	30.6	53.8	(D)	CC	(D)
254	Partitions and fixtures -----	-	48	15	0.9	10.6	0.7	1.5	7.3	23.5	25.0	48.3	(D)	1.0	12.0
2541	Wood partitions and fixtures -	-	43	12	0.7	8.3	0.6	1.2	5.9	18.5	18.5	36.8	(D)	0.8	10.5
2542	Metal partitions and fixtures -	-	5	3	0.2	2.3	0.1	0.3	1.4	5.0	6.5	11.6	(D)	(NA)	(NA)
259	Miscellaneous furniture and fixtures -----	-	25	12	1.7	18.1	1.4	2.6	11.6	44.5	29.9	73.7	(D)	1.6	31.5
2591	Drapery hardware and blinds and shades -----	-	5	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2599	Furniture and fixtures, n.e.c. -	-	20	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
26	Paper and allied products -----	-	226	165	40.0	521.1	31.3	64.4	458.1	1 659.4	2 365.8	4 002.8	316.0	38.3	844.3
2611	Pulp mills -----	-	5	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2621	Paper mills, except building paper -----	-	36	36	18.0	302.5	14.2	29.8	229.0	710.7	1 029.9	1 735.8	209.9	FF	(D)
2631	Paperboard mills -----	-	6	6	1.2	18.2	0.9	1.8	13.5	49.0	41.1	89.7	(D)	EE	(D)
264	Miscellaneous converted paper products -----	-	104	61	12.8	191.1	10.0	20.7	140.2	665.5	960.9	1 610.9	45.4	10.8	264.9
2641	Paper coating and glazing ---	-	21	14	3.7	57.5	2.7	5.5	37.5	157.6	255.2	409.1	4.1	3.1	72.4
2642	Envelopes -----	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2643	Bags, except textile bags -----	-	15	6	1.0	12.7	0.8	1.7	9.5	34.9	39.9	75.2	3.2	0.4	6.0
2646	Pressed and molded pulp goods -----	-	5	4	0.2	2.0	0.2	0.3	1.6	6.7	4.8	11.3	0.1	AA	(D)
2647	Sanitary paper products -----	-	18	16	6.3	100.2	5.2	10.6	79.3	420.5	605.5	1 015.0	36.4	5.7	159.3
2648	Stationery products -----	-	11	6	0.4	4.1	0.3	0.5	2.5	9.9	9.8	19.2	0.3	0.3	5.0
2649	Converted paper products, n.e.c. -----	-	26	9	0.7	8.2	0.5	1.2	5.7	21.7	34.0	55.3	0.8	0.5	8.8
265	Paperboard containers and boxes -----	-	74	56	7.3	96.5	5.5	10.8	65.6	196.3	273.4	467.9	20.7	7.4	130.2
2651	Folding paperboard boxes ---	-	11	9	1.0	11.5	0.8	1.4	7.7	25.0	22.7	47.4	3.0	1.0	17.9
2652	Setup paperboard boxes -----	-	6	6	0.3	3.1	0.3	0.5	2.3	4.3	5.1	9.5	(D)	BB	(D)
2653	Corrugated and solid fiber boxes -----	-	43	30	3.7	51.3	2.6	5.3	31.9	107.1	162.7	268.9	14.0	3.9	66.0
2654	Sanitary food containers -----	-	5	4	1.6	22.2	1.3	2.5	17.3	43.1	61.1	103.4	2.7	1.7	34.7
2655	Fiber cans, drums, and similar products -----	-	9	7	0.7	8.4	0.5	1.1	6.4	16.8	21.8	38.7	(D)	CC	(D)
27	Printing and publishing -----	-	1 143	239	26.9	341.3	16.2	30.5	200.3	881.4	487.5	1 161.6	41.1	25.1	421.0
2711	Newspapers -----	-	261	57	8.3	88.6	3.1	5.5	35.0	196.9	69.4	266.1	9.8	8.5	129.0
2721	Periodicals -----	E1	58	9	0.6	7.6	0.2	0.3	1.8	19.5	10.7	29.9	0.2	0.7	15.8
273	Books -----	-	57	18	3.6	49.0	2.2	4.1	29.0	96.0	92.8	186.5	3.9	1.9	42.6
2731	Book publishing -----	-	33	7	1.4	17.5	0.7	1.2	8.1	40.3	28.1	67.8	1.1	0.4	8.1
2732	Book printing -----	-	24	11	2.2	31.5	1.5	2.9	20.9	55.8	64.7	118.7	2.8	1.5	34.5
2741	Miscellaneous publishing -----	E1	47	8	0.4	4.3	0.2	0.3	1.3	9.6	5.7	15.3	0.3	0.3	5.2
275	Commercial printing -----	-	600	110	11.0	151.1	8.4	16.0	106.5	271.5	236.3	504.4	23.1	11.1	178.3
2751	Commercial printing, letterpress -----	E1	316	31	3.0	31.6	2.4	4.3	21.2	55.7	66.0	121.7	5.4	3.5	46.3
2752	Commercial printing, lithographic -----	-	259	70	7.0	102.6	5.3	10.3	73.7	190.6	143.4	330.3	16.5	FF	(D)
2754	Commercial printing, gravure -----	-	11	6	0.9	15.3	0.6	1.3	10.4	22.7	26.1	49.0	1.1	CC	(D)
2761	Manifold business forms -----	-	18	13	1.2	15.9	0.9	1.8	10.6	48.6	55.7	103.8	1.5	1.0	24.6
278	Blankbooks and bookbinding --	-	22	8	0.8	9.4	0.6	1.1	5.7	14.5	7.1	21.5	0.5	0.8	10.8
2782	Blankbooks and looseleaf binders -----	-	9	6	0.7	8.0	0.4	0.9	4.7	12.3	6.7	19.0	0.5	0.7	8.9
279	Printing trade services -----	-	80	16	1.0	15.4	0.7	1.4	10.4	24.7	9.8	34.1	1.7	0.7	14.8
2791	Typesetting -----	E1	53	7	0.4	5.3	0.3	0.6	3.8	9.0	1.2	10.1	(D)	0.3	4.6
2795	Lithographic platemaking services -----	-	16	8	0.5	8.7	0.3	0.7	5.7	13.1	7.9	20.7	0.7	0.2	7.0

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
28	Chemicals and allied products -----	-	228	86	7.6	108.4	4.4	9.2	54.8	516.4	468.0	985.1	26.0	10.5	372.8
281	Industrial inorganic chemicals --	-	14	3	0.2	2.8	0.2	0.3	2.2	17.7	16.1	33.7	1.2	(NA)	(NA)
282	Plastics materials and synthetics -----	-	6	5	0.6	9.4	0.4	0.8	5.8	41.2	55.7	26.3	(D)	0.9	31.9
2821	Plastics materials and resins -	-	6	5	0.6	9.4	0.4	0.8	5.8	41.2	55.7	26.3	(D)	CC	(D)
283	Drugs-----	-	17	11	0.6	7.9	0.4	0.8	3.5	22.0	18.4	39.4	(D)	1.0	25.0
2831	Biological products -----	-	6	4	0.2	1.7	0.1	0.2	0.9	4.4	3.2	7.7	(D)	(NA)	(NA)
2833	Medicinals and botanicals ---	-	3	3	0.2	2.9	0.1	0.2	1.2	8.9	10.0	17.7	(D)	AA	(D)
2834	Pharmaceutical preparations -	-	8	4	0.3	3.3	0.2	0.3	1.4	8.7	5.3	14.0	0.3	CC	(D)
284	Soaps, cleaners, and toilet goods -----	-	54	20	2.6	36.8	1.6	3.3	22.3	302.3	181.1	484.5	8.8	FF	(D)
2841	Soap and other detergents --	E3	20	8	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	5.0
2842	Polishes and sanitation goods -----	-	24	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
2843	Surface active agents -----	-	3	2	0.2	2.8	0.1	0.2	1.9	15.9	21.9	37.5	(D)	(NA)	(NA)
2844	Toilet preparations-----	-	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2851	Paints and allied products-----	-	31	11	1.0	15.7	0.5	1.0	6.1	37.0	65.4	101.3	2.5	1.0	28.2
286	Industrial organic chemicals ---	-	13	7	0.6	8.5	0.3	0.7	3.9	27.5	29.2	56.4	2.0	0.5	12.4
2869	Industrial organic chemicals, n.e.c. -----	-	11	6	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
287	Agricultural chemicals -----	-	26	7	0.3	3.7	0.2	0.4	2.1	13.4	24.6	38.5	(D)	0.3	6.1
2875	Fertilizers, mixing only -----	-	17	5	0.2	2.5	0.2	0.3	1.6	9.1	20.5	29.9	0.3	0.2	4.2
289	Miscellaneous chemical products -----	-	57	22	1.7	23.7	0.8	2.0	8.9	57.3	77.4	134.9	2.1	3.4	61.5
2891	Adhesives and sealants-----	-	14	4	0.5	6.9	0.3	0.7	3.6	14.4	24.4	39.7	0.3	0.3	6.8
2892	Explosives -----	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
2893	Printing ink -----	E1	13	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	7.4
2899	Chemical preparations, n.e.c. -----	-	37	10	0.7	9.3	0.3	0.6	3.3	27.5	36.6	63.5	1.4	BB	(D)
29	Petroleum and coal products -----	-	34	6	0.6	11.0	0.4	0.9	6.9	36.5	202.6	232.0	2.1	0.5	12.2
2911	Petroleum refining -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
295	Paving and roofing materials---	-	17	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2951	Paving mixtures and blocks--	-	13	1	0.2	4.7	0.2	0.4	3.7	11.9	20.1	32.0	1.3	(NA)	(NA)
299	Miscellaneous petroleum and coal products-----	E1	15	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
2992	Lubricating oils and greases -	-	14	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
30	Rubber and miscellaneous plastics products -----	-	278	155	16.5	192.0	13.2	25.8	134.7	441.0	419.6	851.7	35.8	12.7	226.2
3011	Tires and inner tubes -----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3021	Rubber and plastics footwear --	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3041	Rubber and plastics hose and belting -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3069	Fabricated rubber products, n.e.c. -----	E1	26	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3079	Miscellaneous plastics products -----	-	246	135	11.8	125.6	8.3	18.2	82.6	302.2	303.4	601.6	27.9	8.2	136.8
31	Leather and leather products -----	-	111	71	11.4	107.2	9.2	17.8	76.5	236.1	279.1	516.0	(D)	FF	(D)
3111	Leather tanning and finishing --	-	24	19	3.1	39.2	2.6	5.0	28.4	78.4	141.7	218.6	(D)	3.4	59.5
3131	Boot and shoe cut stock and findings -----	-	4	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
314	Footwear, except rubber -----	-	35	30	6.1	50.4	4.8	9.6	36.1	122.1	93.4	216.6	(D)	9.3	104.4
3143	Men's footwear, except athletic -----	-	20	19	4.9	42.7	3.7	7.7	29.5	107.9	82.2	191.6	(D)	7.7	90.4
3144	Women's footwear, except athletic -----	-	6	5	0.4	2.2	0.3	0.6	2.1	3.6	3.4	7.4	(Z)	0.6	4.4
3149	Footwear, except rubber, n.e.c. -----	-	8	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3151	Leather gloves and mittens----	-	18	13	0.8	5.1	0.7	1.2	3.8	10.4	10.1	20.6	0.1	0.7	4.2
317	Handbags and other personal leather goods -----	-	9	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3172	Personal leather goods -----	-	8	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture ³ (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
32	Stone, clay, and glass products -----	-	443	103	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	8.1	167.9
322	Glass and glassware, pressed or blown -----	-	5	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3221	Glass containers -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3231	Products of purchased glass ---	-	23	5	0.4	4.3	0.3	0.6	2.7	6.4	13.1	19.2	0.2	0.3	5.9
326	Pottery and related products ---	-	14	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3261	Vitreous plumbing fixtures -----	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3264	Porcelain electrical supplies -	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
327	Concrete, gypsum, and plaster products -----	-	318	76	4.1	58.9	3.0	6.2	39.0	127.8	153.6	279.8	15.6	4.2	83.4
3271	Concrete block and brick -----	E1	46	13	0.6	8.7	0.4	0.8	4.9	20.2	21.1	40.9	1.4	0.6	12.9
3272	Concrete products, n.e.c. -----	-	98	24	1.3	18.2	1.0	2.2	12.4	37.8	30.3	67.1	4.0	1.6	27.7
3273	Ready-mixed concrete -----	E1	168	35	2.1	29.8	1.5	2.9	19.7	64.8	92.9	157.5	9.4	1.9	40.1
3281	Cut stone and stone products -	E2	20	4	0.2	1.7	0.2	0.3	1.4	2.2	2.4	4.5	0.1	0.3	3.6
329	Miscellaneous nonmetallic mineral products -----	-	55	13	2.4	27.8	2.0	3.9	19.7	103.3	99.6	202.4	6.0	1.7	39.2
3291	Abrasive products -----	-	11	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3293	Gaskets, packing, and sealing devices -----	-	9	3	0.7	6.3	0.6	1.2	4.2	12.4	18.0	30.6	1.8	0.5	6.2
3295	Minerals, ground or treated -----	-	9	2	0.2	3.6	0.2	0.4	2.6	12.5	9.7	22.1	0.6	(NA)	(NA)
3296	Mineral wool -----	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
33	Primary metal industries -----	-	233	144	27.4	390.7	22.3	44.6	294.7	783.1	678.0	1 455.1	70.9	24.5	415.4
331	Blast furnace and basic steel products -----	-	21	12	2.7	42.4	2.2	4.6	32.7	88.1	139.0	228.1	9.7	2.4	44.8
3312	Blast furnaces and steel mills -----	-	8	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3315	Steel wire and related products -----	-	6	5	0.9	12.0	0.7	1.4	8.6	28.3	22.9	51.6	(D)	0.8	15.7
3317	Steel pipe and tubes -----	-	4	4	1.5	24.6	1.2	2.6	19.4	47.2	85.3	132.9	(D)	BB	(D)
332	Iron and steel foundries -----	-	92	78	16.3	232.9	13.2	26.3	175.7	473.1	279.0	746.6	46.1	13.8	214.5
3321	Gray iron foundries -----	-	60	50	9.5	131.1	7.8	15.3	99.8	277.8	185.1	461.7	33.5	7.7	117.0
3322	Malleable iron foundries -----	-	7	7	1.6	25.1	1.3	2.6	17.8	39.7	17.6	57.0	2.6	2.1	31.8
3324	Steel investment foundries -----	-	6	6	0.3	4.6	0.3	0.6	2.9	10.1	4.5	14.7	0.5	0.2	3.8
3325	Steel foundries, n.e.c. -----	-	19	15	4.8	72.0	3.8	7.9	55.2	145.5	71.8	213.2	9.5	3.7	61.9
3341	Secondary nonferrous metals -----	E1	9	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	7.5
335	Nonferrous rolling and drawing -----	-	11	6	2.0	32.6	1.6	3.3	24.1	66.1	100.5	166.1	3.1	2.4	50.3
3351	Copper rolling and drawing -----	-	3	3	1.7	28.6	1.4	2.9	21.5	59.1	95.6	154.7	2.7	EE	(D)
3357	Nonferrous wire drawing and insulating -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
336	Nonferrous foundries -----	-	68	37	5.5	70.8	4.7	9.2	54.8	125.2	124.2	247.8	9.4	4.8	81.2
3361	Aluminum foundries -----	-	49	31	4.9	64.3	4.3	8.4	50.4	111.4	112.6	222.5	9.0	3.6	55.6
3362	Brass, bronze, and copper foundries -----	-	11	5	0.4	4.5	0.3	0.6	3.0	10.2	8.1	18.1	0.4	CC	(D)
3369	Nonferrous foundries, n.e.c. -----	E1	8	1	0.2	2.0	0.1	0.3	1.4	3.7	3.5	7.2	(Z)	BB	(D)
339	Miscellaneous primary metal products -----	E2	30	10	0.7	10.0	0.5	1.0	6.1	23.9	12.1	35.7	2.0	CC	(D)
3398	Metal heat treating -----	E2	21	7	0.4	6.0	0.3	0.6	3.6	14.6	4.2	18.5	1.3	CC	(D)
3399	Primary metal products, n.e.c. -----	E2	9	3	0.2	4.0	0.2	0.4	2.5	9.4	7.9	17.3	0.7	AA	(D)
34	Fabricated metal products -----	-	835	351	51.7	715.6	39.5	78.3	504.5	1 498.0	1 602.9	3 079.8	78.9	52.9	984.8
341	Metal cans and shipping containers -----	-	18	15	3.9	72.2	3.4	7.1	59.7	214.8	329.9	536.7	4.0	3.0	89.3
3411	Metal cans -----	-	17	14	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3412	Metal barrels, drums, and pails -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
342	Cutlery, hand tools, and hardware -----	-	66	29	6.2	85.3	4.6	8.7	57.7	209.9	187.1	396.4	10.8	5.2	127.1
3423	Hand and edge tools, n.e.c. -----	-	26	11	1.9	28.2	1.3	2.3	16.0	71.7	102.1	173.7	4.1	EE	(D)
3429	Hardware, n.e.c. -----	-	36	18	4.3	56.9	3.3	6.4	41.7	137.9	84.8	222.2	6.7	FF	(D)
343	Plumbing and heating, except electric -----	-	32	12	3.7	54.3	3.1	7.3	44.9	125.2	107.3	237.3	4.4	4.2	85.6
3431	Metal sanitary ware -----	-	2	1	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3432	Plumbing fittings and brass goods -----	-	6	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3433	Heating equipment, except electric -----	-	24	7	1.2	13.9	1.0	1.9	10.0	30.2	45.2	73.4	(D)	1.1	21.9
344	Fabricated structural metal products -----	-	253	104	10.4	143.6	7.2	14.4	91.0	281.7	355.9	622.6	14.4	10.2	183.9
3441	Fabricated structural metal -----	-	53	25	2.3	33.5	1.6	3.2	20.3	68.6	82.9	144.5	3.6	2.2	41.3
3442	Metal doors, sash, and trim -----	-	30	12	1.0	10.6	0.8	1.6	7.1	20.7	29.6	49.6	1.1	0.7	9.3
3443	Fabricated plate work (boiler shops) -----	E1	80	35	3.8	51.6	2.7	5.2	35.5	99.0	88.3	182.7	4.3	4.2	66.8
3444	Sheet metal work -----	-	76	26	2.5	35.6	1.7	3.4	22.2	66.6	104.1	168.9	4.2	2.6	55.8
3446	Architectural metal work -----	E2	23	1	0.2	2.3	0.1	0.2	1.0	3.2	2.8	6.0	0.1	BB	(D)
3448	Prefabricated metal buildings -----	-	5	4	0.5	8.9	0.3	0.7	4.3	20.5	42.1	62.9	(D)	BB	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	E1	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
34	Fabricated metal products—Con.														
345	Screw machine products, bolts, etc. -----	-	82	33	2.5	33.2	2.0	4.1	22.6	69.9	40.7	109.8	5.2	EE	(D)
3451	Screw machine products -----	-	84	24	1.4	19.0	1.2	2.4	13.0	35.3	21.2	56.0	3.8	EE	(D)
3452	Bolts, nuts, rivets, and washers -----	-	18	9	1.1	14.3	0.8	1.7	9.8	34.6	19.5	53.8	2.3	0.9	20.9
346	Metal forgings and stampings -----	-	117	74	15.6	218.2	11.7	22.3	151.6	370.4	420.9	794.8	28.4	15.8	257.1
3462	Iron and steel forgings -----	-	13	11	5.5	98.8	4.3	7.8	73.0	144.0	174.5	321.1	12.8	FF	(D)
3465	Automotive stampings -----	-	6	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	8.3
3469	Metal stampings, n.e.c. -----	-	97	57	9.0	104.8	6.5	12.9	66.5	194.3	215.2	412.4	13.2	10.2	155.3
347	Metal services, n.e.c. -----	E1	118	30	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	23.3
3471	Plating and polishing -----	E1	87	20	1.5	13.7	1.2	2.4	9.8	22.8	10.7	33.4	1.4	1.2	17.0
3479	Metal coating and allied services -----	-	31	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	6.3
348	Ordinance and accessories, n.e.c. -----	-	8	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3483	Ammunition, except for small arms, n.e.c. -----	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
349	Miscellaneous fabricated metal products -----	-	141	50	5.7	72.7	4.5	8.5	49.9	161.1	121.2	278.7	8.6	5.4	93.1
3494	Valves and pipe fittings -----	-	21	10	3.0	41.0	2.4	4.6	29.6	84.8	54.2	146.1	4.0	4.2	62.5
3495	Wire springs -----	-	4	4	0.2	2.8	0.2	0.3	1.8	5.3	3.5	8.9	0.2	0.3	2.9
3496	Miscellaneous fabricated wire products -----	-	20	9	0.7	7.1	0.5	1.0	4.4	12.9	10.3	23.0	0.4	0.5	8.1
3498	Fabricated pipe and fittings -----	-	17	5	0.4	5.4	0.3	0.6	3.7	10.7	17.2	27.4	0.4	0.2	3.8
3499	Fabricated metal products, n.e.c. -----	-	79	22	1.4	16.3	1.1	2.0	10.5	37.7	36.2	73.3	3.5	1.1	16.0
35	Machinery, except electrical -----	-	1 512	520	109.7	1 631.7	78.0	151.7	1 068.1	3 787.4	3 333.9	7 027.7	199.8	97.4	1 992.9
351	Engines and turbines -----	-	27	25	24.3	370.6	19.7	37.2	292.4	813.0	974.2	1 758.5	31.3	20.3	481.7
3511	Turbines and turbine generator sets -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3519	Internal combustion engines, n.e.c. -----	-	25	24	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
352	Farm and garden machinery -----	-	117	54	14.0	210.3	10.2	19.2	135.7	619.1	552.7	1 289.2	39.1	12.8	306.4
3523	Farm machinery and equipment -----	-	102	43	9.7	143.3	7.2	13.6	94.8	456.1	482.5	921.4	28.6	7.9	192.6
3524	Lawn and garden equipment -----	-	15	11	4.3	67.1	2.9	5.6	40.9	163.0	200.1	367.7	10.5	4.8	113.7
353	Construction and related machinery -----	-	113	70	19.2	293.1	13.5	26.4	192.9	783.0	634.2	1 404.8	49.3	18.6	355.7
3531	Construction machinery -----	-	53	38	14.8	228.2	10.6	20.8	154.7	627.0	521.5	1 145.6	41.9	11.0	238.6
3532	Mining machinery -----	-	6	5	2.4	37.6	1.5	2.9	21.6	80.4	56.0	133.9	(D)	2.5	45.5
3535	Conveyors and conveying equipment -----	-	17	10	0.7	10.7	0.5	1.0	5.7	26.3	23.0	48.6	0.5	0.6	14.0
3536	Hoists, cranes, and monorails -----	-	14	8	0.8	11.2	0.6	1.1	7.9	39.7	21.2	54.9	(D)	FF	(D)
3537	Industrial trucks and tractors -----	E1	18	7	0.3	4.1	0.2	0.4	2.4	7.2	11.3	18.2	0.3	BB	(D)
354	Metalworking machinery -----	-	364	84	10.3	164.7	7.2	14.9	102.5	315.3	162.1	462.0	14.6	10.0	168.8
3541	Machine tools, metal cutting types -----	-	36	18	3.7	62.9	2.2	4.4	32.8	128.3	60.5	179.6	4.0	3.9	55.6
3544	Special dies, tools, jigs, and fixtures -----	E1	258	42	3.6	60.9	2.9	6.3	43.9	93.1	35.7	127.5	6.7	3.8	62.3
3545	Machine tool accessories -----	-	35	11	0.9	11.8	0.7	1.4	8.2	25.9	15.8	40.8	1.7	0.6	12.0
3546	Power driven hand tools -----	-	5	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3549	Metalworking machinery, n.e.c. -----	-	19	10	1.0	15.2	0.7	1.4	8.2	29.0	13.4	37.8	(D)	CC	(D)
355	Special industry machinery -----	-	150	70	11.3	165.5	6.8	13.3	88.1	347.1	249.4	593.0	14.1	9.9	185.7
3551	Food products machinery -----	-	50	24	4.2	58.0	2.8	5.6	37.4	106.7	77.7	178.2	4.9	3.0	49.3
3553	Woodworking machinery -----	E1	17	6	0.7	10.3	0.5	1.0	8.2	19.3	10.3	26.5	0.8	0.7	11.2
3554	Paper industries machinery -----	-	25	16	4.1	64.7	2.1	4.1	28.9	143.7	99.5	246.7	5.9	FF	(D)
3555	Printing trades machinery -----	-	17	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.3	4.0
3559	Special industry machinery, n.e.c. -----	-	38	16	1.7	24.9	1.0	1.9	11.7	63.1	49.1	111.5	1.8	2.1	52.9
356	General industrial machinery -----	-	207	83	14.5	211.9	9.7	19.0	129.6	473.6	295.6	758.9	22.2	13.1	272.2
3561	Pumps and pumping equipment -----	-	29	14	2.5	37.3	1.5	3.1	21.7	88.1	80.0	163.8	5.0	2.3	51.2
3563	Air and gas compressors -----	-	5	3	0.6	9.5	0.3	0.6	4.0	17.9	22.4	40.3	0.7	BB	(D)
3564	Blowers and fans -----	-	14	4	0.5	5.7	0.3	0.7	3.7	17.3	15.1	32.9	0.6	0.3	7.3
3565	Industrial patterns -----	E1	65	7	0.7	11.8	0.6	1.2	9.5	17.8	4.4	22.1	0.5	0.6	10.3
3566	Speed changers, drives, and gears -----	-	17	9	4.1	60.4	2.8	5.5	38.1	149.2	50.2	206.6	8.1	3.6	68.7
3567	Industrial furnaces and ovens -----	-	11	8	0.8	9.7	0.4	0.8	4.4	21.4	12.1	32.7	0.5	CC	(D)
3568	Power transmission equipment, n.e.c. -----	-	15	12	2.6	40.6	1.9	3.5	26.9	90.8	55.4	144.1	4.4	2.2	56.6
3569	General industrial machinery, n.e.c. -----	-	50	25	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	60.4

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
35	Machinery, except electrical—Con.														
357	Office and computing machines -----	-	13	5	1.4	21.5	0.9	1.8	10.5	41.5	31.8	69.6	1.8	1.0	19.2
3573	Electronic computing equipment -----	-	9	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3574	Calculating and accounting machines -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3579	Office machines, n.e.c. and typewriters -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
358	Refrigeration and service machinery -----	-	68	30	7.8	106.7	4.5	9.2	55.7	228.6	208.8	433.2	16.1	6.6	116.5
3585	Refrigeration and heating equipment -----	-	28	17	6.3	83.5	3.6	7.4	43.5	158.9	145.6	303.3	12.6	5.3	82.6
3589	Service industry machinery, n.e.c. -----	-	37	11	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
359	Miscellaneous machinery, except electrical -----	E1	453	99	7.0	87.4	5.5	10.8	60.7	166.2	95.4	258.5	11.2	5.1	86.8
3592	Carburetors, pistons, rings, and valves -----	-	5	4	1.0	10.8	0.8	1.5	8.3	29.9	21.8	51.2	1.1	BB	(D)
3599	Machinery, except electrical, n.e.c. -----	E1	448	95	6.0	76.5	4.8	9.2	52.4	136.4	73.6	207.3	10.1	FF	(D)
36	Electric and electronic equipment -	-	315	157	51.1	671.6	34.9	68.2	397.5	1 446.4	1 111.7	2 503.0	84.2	48.0	828.8
361	Electric distributing equipment -	-	31	17	5.8	76.2	4.1	7.8	47.4	202.3	166.9	359.8	26.0	4.7	95.6
3612	Transformers -----	-	16	12	4.2	49.4	3.1	5.8	32.0	130.5	122.4	245.4	23.7	FF	(D)
3613	Switchgear and switchboard apparatus -----	-	15	5	1.7	26.7	1.0	2.0	15.5	71.8	44.6	114.4	(D)	EE	(D)
362	Electrical industrial apparatus --	-	85	48	21.5	296.6	14.2	29.3	175.6	591.5	382.8	955.6	25.3	19.8	316.8
3621	Motors and generators -----	-	37	24	7.4	88.8	5.2	9.9	56.3	179.0	139.2	315.2	14.0	5.2	81.2
3622	Industrial controls -----	-	34	18	12.2	179.8	7.6	16.3	100.3	353.3	168.7	510.5	10.2	13.0	208.3
3623	Welding apparatus, electric --	-	8	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3624	Carbon and graphite products -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
363	Household appliances -----	-	24	20	8.4	102.8	5.8	10.7	59.1	258.8	247.1	496.3	9.9	7.9	136.5
3631	Household cooking equipment -----	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3632	Household refrigerators and freezers -----	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
3633	Household laundry equipment -----	-	3	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3634	Electric housewares and fans -----	-	9	8	4.5	54.8	2.6	5.0	27.1	129.9	119.0	242.1	3.8	4.2	72.6
3639	Household appliances, n.e.c. -----	-	6	4	1.4	18.4	1.1	2.0	12.3	58.0	48.6	106.2	(D)	EE	(D)
364	Electric lighting and wiring equipment -----	-	30	13	2.0	23.5	1.4	2.7	12.8	38.0	48.7	85.0	3.2	2.0	28.8
3644	Noncurrent-carrying wiring devices -----	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3645	Residential lighting fixtures --	-	6	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.7	7.8
3648	Lighting equipment, n.e.c. ---	-	7	3	0.5	5.7	0.4	0.7	2.7	7.0	16.3	23.4	(D)	BB	(D)
365	Radio and TV receiving equipment -----	-	9	4	0.9	6.4	0.7	1.3	4.9	14.6	12.0	25.7	2.9	0.5	3.7
3651	Radio and TV receiving sets -	-	5	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3652	Phonograph records and prerecorded tape -----	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
366	Communication equipment ----	-	29	11	2.7	39.2	1.9	3.7	24.6	57.6	56.1	118.7	4.2	3.4	51.4
3661	Telephone and telegraph apparatus -----	-	6	2	0.5	4.4	0.4	0.8	3.5	2.4	11.1	13.3	0.1	BB	(D)
3662	Radio and TV communication equipment --	-	23	9	2.2	34.8	1.5	2.9	21.1	55.2	45.0	105.4	4.1	FF	(D)
367	Electronic components and accessories -----	E1	64	20	2.6	24.6	2.1	3.8	16.2	58.9	33.7	91.1	2.9	3.1	44.8
3675	Electronic capacitors -----	-	2	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3676	Electronic resistors -----	-	4	3	0.2	2.1	0.2	0.4	1.4	4.2	4.0	8.1	0.4	(NA)	(NA)
3677	Electronic coils and transformers -----	-	6	3	0.4	2.5	0.3	0.5	1.7	3.7	3.1	6.8	0.1	0.7	5.6
3679	Electronic components, n.e.c. -----	E1	45	12	1.4	15.1	1.1	2.0	9.0	42.5	22.8	64.3	1.9	EE	(D)
369	Miscellaneous electrical equipment and supplies -----	-	43	24	7.2	102.3	4.9	9.1	56.9	224.7	164.4	370.8	9.8	FF	(D)
3691	Storage batteries -----	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3692	Primary batteries, dry and wet -----	-	5	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3693	X-ray, electromedical, and electrotherapeutic apparatus -----	-	11	9	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3694	Engine electrical equipment -	-	11	6	0.7	8.0	0.6	1.0	5.8	20.3	12.5	32.9	0.5	1.5	21.7
3699	Electrical equipment and supplies, n.e.c. -----	-	13	2	0.2	2.0	0.2	0.3	1.1	3.8	3.1	6.8	0.1	0.4	4.7

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972—
Con.

[Includes industry groups and industries with 150 employees or more. For explanation of terms, see appendix B]

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture ³ (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)	All employees ² (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
37	Transportation equipment -----	-	178	75	37.0	575.0	30.4	54.8	444.8	1 494.1	3 128.8	4 624.4	48.4	34.1	786.0
371	Motor vehicles and equipment -	-	90	45	32.0	518.3	26.3	47.0	402.3	1 347.2	2 983.5	4 337.1	(D)	27.8	682.7
3711	Motor vehicles and car bodies -----	-	16	8	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3713	Truck and bus bodies -----	-	22	11	1.2	15.2	0.9	1.8	10.7	29.7	41.2	68.6	1.2	(NA)	(NA)
3714	Motor vehicle parts and accessories -----	-	44	20	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
3715	Truck trailers -----	-	8	6	1.3	19.7	0.9	1.8	12.4	37.6	51.4	89.4	0.5	AA	(D)
372	Aircraft and parts -----	-	7	3	0.3	4.0	0.3	0.5	3.0	8.2	9.4	16.3	(D)	BB	(D)
3724	Aircraft engines and engine parts -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
373	Ship and boat building and repairing -----	-	49	13	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	21.1
3731	Ship building and repairing --	-	6	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	11.1
3732	Boat building and repairing --	E1	43	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.6	10.1
3743	Railroad equipment -----	-	5	3	0.3	3.7	0.2	0.3	2.5	10.6	7.1	17.5	(D)	BB	(D)
3751	Motorcycles, bicycles, and parts -----	E2	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	FF	(D)
379	Miscellaneous transportation equipment -----	-	21	8	0.7	7.5	0.5	1.0	4.9	15.6	23.7	40.1	(D)	1.0	15.9
3792	Travel trailers and campers --	E1	13	4	0.4	3.4	0.3	0.5	2.6	6.4	14.3	21.0	0.3	0.5	5.5
3799	Transportation equipment, n.e.c. -----	-	8	4	0.3	4.1	0.2	0.4	2.2	9.2	9.5	19.1	(D)	0.5	10.3
38	Instruments and related products -----	-	119	50	9.9	111.2	6.6	13.0	62.5	234.0	164.0	396.1	12.2	7.1	120.9
3811	Engineering and scientific instruments -----	-	11	5	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4	34.4
382	Measuring and controlling devices -----	-	40	15	2.4	29.7	1.6	3.3	17.1	61.8	29.9	91.4	3.4	1.9	38.4
3823	Process control instruments -	E1	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	4.3
3824	Fluid meters and counting devices -----	-	2	2	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3825	Instruments to measure electricity -----	E1	10	5	0.6	4.3	0.5	1.0	3.1	6.6	4.8	12.2	(D)	CC	(D)
3829	Measuring and controlling devices, n.e.c. -----	-	17	4	0.3	3.5	0.2	0.5	1.9	8.7	5.1	13.6	(D)	(NA)	(NA)
3832	Optical instruments and lenses -----	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
384	Medical instruments and supplies -----	-	43	17	2.8	29.5	2.1	4.4	20.0	68.7	57.7	127.4	3.7	1.2	24.6
3841	Surgical and medical instruments -----	-	11	6	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.8	19.7
3842	Surgical appliances and supplies -----	-	25	8	1.1	11.0	0.8	1.7	7.5	17.7	22.5	40.3	0.5	0.3	4.2
3843	Dental equipment and supplies -----	-	7	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3861	Photographic equipment and supplies -----	-	12	7	1.1	11.8	0.8	1.4	5.8	28.9	26.1	52.7	0.8	BB	(D)
3873	Watches, clocks, and watchcases -----	-	3	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
39	Miscellaneous manufacturing industries -----	-	350	96	10.4	97.3	8.0	14.5	82.0	237.6	191.7	427.4	9.0	12.8	204.0
3931	Musical instruments -----	-	14	5	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
394	Toys and sporting goods -----	-	91	33	3.1	23.7	2.6	4.7	16.9	60.4	54.1	114.9	(D)	5.5	72.2
3944	Games, toys, and children's vehicles -----	E1	19	10	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.4	42.5
3949	Sporting and athletic goods, n.e.c. -----	-	71	23	2.1	16.5	1.8	3.3	11.7	43.6	35.5	79.2	2.0	EE	(D)
395	Pens, pencils, office and art supplies -----	-	17	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3951	Pens and mechanical pencils -----	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3953	Marking devices -----	-	12	1	0.2	0.6	0.1	0.2	0.3	4.7	1.2	5.9	(D)	(NA)	(NA)
396	Costume jewelry and notions --	-	20	6	0.4	2.4	0.3	0.5	1.8	5.4	2.2	7.5	(D)	AA	(D)
3962	Artificial flowers -----	E1	11	3	0.2	0.8	0.1	0.1	0.5	1.7	0.5	2.1	(D)	(NA)	(NA)
3964	Needles, pins, and fasteners -----	-	4	3	0.2	1.6	0.2	0.3	1.3	3.5	1.7	5.2	(D)	(NA)	(NA)
399	Miscellaneous manufactures --	-	196	47	5.5	55.1	3.8	6.9	29.6	109.0	105.2	213.8	(D)	5.4	94.2
3991	Brooms and brushes -----	-	14	7	0.9	9.5	0.6	1.4	5.0	22.5	26.0	48.1	(D)	CC	(D)
3993	Signs and advertising displays -----	-	91	19	1.7	19.2	1.3	2.5	11.2	34.7	28.1	62.8	1.6	2.0	34.5
3995	Burial caskets -----	-	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	0.2	2.5
3999	Manufacturing industries, n.e.c. -----	-	84	18	2.7	24.8	1.8	2.8	12.4	48.7	47.2	95.7	(D)	2.3	40.8
-	Administrative and auxiliary -----	-	197	122	23.1	419.9	-	-	-	-	-	-	-	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Statistics for some industry groups and industries are withheld to avoid disclosing figures for individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972	
		All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
		E1	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Milwaukee-Racine SCSA ----	-	3 264 1 288	231.3	3 428.3	156.2	302.8	2 094.8	7 389.5	7 034.5	14 297.3	444.7	226.1	4 286.4
20	Food and kindred products --	-	189 97	18.4	291.2	12.1	24.6	189.7	808.8	1 450.5	2 258.6	83.2	18.5	473.6
202	Dairy products -----	-	23 9	1.1	16.5	0.6	1.3	9.2	61.9	183.5	244.2	3.6	(NA)	(NA)
2026	Fluid milk -----	-	9 5	0.6	9.4	0.2	0.6	4.0	25.0	96.7	121.6	2.4	(NA)	(NA)
233	Women's and misses' outerwear -----	-	7 5	0.9	9.5	0.7	1.4	5.4	17.9	16.2	34.1	(D)	(NA)	(NA)
25	Furniture and fixtures -----	-	56 16	1.1	13.2	0.8	1.6	8.2	28.7	23.3	51.7	0.9	(NA)	(NA)
27	Printing and publishing -----	-	424 107	14.0	187.5	8.2	15.8	111.4	364.2	247.8	608.0	18.4	13.1	216.2
275	Commercial printing -----	-	253 50	6.1	90.8	4.6	9.0	64.1	163.3	131.4	292.5	12.6	(NA)	(NA)
2752	Commercial printing, lithographic -----	-	120 34	4.3	67.7	3.2	6.5	48.9	127.2	95.4	220.3	10.4	(NA)	(NA)
283	Drugs -----	-	7 6	0.4	5.5	0.2	0.3	1.9	15.7	12.2	27.6	(D)	(NA)	(NA)
2844	Toilet preparations -----	E1	4 2	0.3	2.1	0.2	0.4	1.5	4.8	2.1	6.9	0.1	(NA)	(NA)
289	Miscellaneous chemical products -----	E1	50 18	1.2	17.2	0.6	1.3	7.5	39.6	55.8	96.5	1.3	(NA)	(NA)
2891	Adhesives and sealants -----	-	11 4	0.5	8.8	0.3	0.7	3.6	14.1	23.7	38.7	(D)	(NA)	(NA)
329	Miscellaneous nonmetallic mineral products -----	E1	28 5	0.6	7.1	0.4	0.8	4.5	15.1	16.8	32.0	(D)	(NA)	(NA)
33	Primary metal industries -----	-	129 78	14.8	215.5	12.1	24.1	163.6	407.2	324.7	725.5	40.8	14.2	230.4
331	Blast furnace and basic steel products -----	-	8 4	1.3	23.0	1.2	2.6	19.6	40.7	72.8	113.4	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	438 190	29.8	442.1	22.9	44.0	314.5	900.4	953.8	1 831.1	44.7	29.2	535.5
344	Fabricated structural metal products -----	-	120 50	6.0	86.7	3.9	7.6	52.8	166.9	203.6	358.7	8.0	(NA)	(NA)
345	Screw machine products, bolts, etc. -----	-	52 21	1.5	19.7	1.2	2.4	13.4	38.5	26.6	64.4	2.8	(NA)	(NA)
346	Metal forgings and stampings -----	-	74 47	9.1	146.4	7.1	13.2	106.1	241.1	271.3	513.1	17.8	(NA)	(NA)
3471	Plating and polishing ---	E2	47 11	0.9	8.8	0.7	1.3	6.0	14.6	6.5	21.1	(D)	(NA)	(NA)
3499	Fabricated metal products, n.e.c. -----	-	45 10	0.7	9.5	0.6	1.1	6.3	21.7	21.3	42.7	(D)	(NA)	(NA)
35	Machinery, except electrical -	-	820 279	82.6	974.1	45.1	86.7	653.1	2 228.1	1 806.7	3 985.8	118.6	56.8	1 202.2
354	Metalworking machinery ---	-	245 57	7.2	118.8	5.1	10.4	74.4	221.2	116.9	328.2	10.1	(NA)	(NA)
3544	Special dies, tools, jigs, and fixtures -----	E1	173 32	3.0	51.7	2.4	5.1	37.0	77.5	29.7	106.2	5.3	(NA)	(NA)
356	General industrial machinery -----	-	117 45	10.1	154.4	6.7	12.9	93.1	343.9	191.3	530.3	(D)	(NA)	(NA)
358	Refrigeration and service machinery -----	-	30 11	1.8	28.5	1.1	2.3	15.0	78.2	72.8	151.3	3.6	(NA)	(NA)
3585	Refrigeration and heating equipment -----	E1	12 5	0.9	12.6	0.5	1.3	6.5	23.9	27.3	53.2	(D)	(NA)	(NA)
3589	Service industry machinery, n.e.c. -----	-	18 6	0.9	15.9	0.5	1.0	8.5	54.2	45.5	98.1	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	185 89	33.9	483.2	22.1	43.0	274.0	1 018.8	865.0	1 643.9	61.4	34.4	605.7
361	Electric distributing equipment -----	-	19 9	3.3	55.2	2.0	3.8	32.3	165.7	108.2	265.6	(D)	(NA)	(NA)
38	Instruments and related products -----	-	57 24	4.1	49.5	2.4	4.8	23.3	101.7	72.3	170.6	6.6	(NA)	(NA)
39	Miscellaneous manufacturing industries ---	-	141 41	3.3	34.2	2.4	4.6	19.3	75.6	73.1	148.5	2.9	(NA)	(NA)
3949	Sporting and athletic goods, n.e.c. -----	-	23 9	0.5	4.3	0.4	0.7	2.9	11.8	12.3	23.9	(D)	(NA)	(NA)
3991	Brooms and brushes -----	-	7 5	0.7	7.7	0.5	1.1	3.9	18.0	22.3	40.0	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
	Appleton-Oshkosh SMSA ----	-	500	237	42.9	582.2	30.9	51.8	375.9	1 388.9	1 905.2	3 233.2	96.3	38.4	723.8
20	Food and kindred products --	-	76	36	3.8	41.1	2.7	5.3	25.8	143.5	420.0	559.8	13.3	2.8	56.9
202	Dairy products -----	-	33	15	1.1	13.4	0.9	1.9	10.2	65.1	245.2	307.4	4.0	0.9	29.2
203	Preserved fruits and vegetables -----	-	11	9	1.2	10.5	0.8	1.6	6.5	26.3	27.9	54.0	3.4	0.8	14.5
22	Textile mill products -----	-	7	5	1.4	15.5	1.1	2.3	10.5	40.0	29.8	66.8	(D)	(NA)	(NA)
24	Lumber and wood products --	-	26	12	1.6	17.0	1.3	3.0	13.2	34.1	66.9	99.7	(D)	1.2	21.4
25	Furniture and fixtures -----	-	13	4	0.8	6.8	0.7	1.3	5.3	13.1	10.6	22.4	(D)	0.8	8.8
26	Paper and allied products ---	-	54	44	12.2	184.5	8.5	19.7	135.0	497.8	706.2	1 191.4	40.8	11.3	265.8
2621	Paper mills, except building paper -----	-	13	13	4.7	74.2	3.8	8.1	57.8	191.8	275.7	461.2	(D)	4.6	104.6
264	Miscellaneous converted paper products -----	-	26	19	5.7	83.4	4.3	8.8	57.9	253.4	349.5	597.2	(D)	4.9	124.8
265	Paperboard containers and boxes -----	-	12	9	1.3	19.4	1.0	2.0	13.5	39.1	57.2	95.8	(D)	1.3	26.8
27	Printing and publishing -----	-	84	23	2.5	33.9	1.6	2.9	19.6	80.0	53.1	111.8	4.5	3.1	52.8
275	Commercial printing -----	E1	51	14	1.0	13.4	0.8	1.5	9.5	22.9	16.8	39.4	2.6	1.8	21.9
2751	Commercial printing, letterpress -----	-	24	4	0.4	3.9	0.3	0.6	2.7	8.1	8.9	17.0	(D)	(NA)	(NA)
2752	Commercial printing, lithographic -----	E2	23	6	0.4	5.0	0.3	0.6	3.5	7.4	5.4	12.7	0.8	0.3	4.5
30	Rubber and miscellaneous plastics products -----	-	8	6	0.7	10.1	0.4	0.9	5.5	33.6	35.4	66.9	(D)	0.8	23.5
32	Stone, clay, and glass products -----	-	24	6	0.3	4.7	0.2	0.4	2.4	8.3	14.2	22.3	1.0	0.3	5.5
33	Primary metal industries ---	-	10	7	3.4	48.5	2.6	5.1	35.0	115.2	69.9	183.6	10.4	2.9	61.1
332	Iron and steel foundries ---	-	4	4	2.8	38.5	2.2	4.2	28.9	95.2	55.9	150.1	(D)	2.2	44.6
3321	Gray iron foundries -----	-	4	4	2.8	39.5	2.2	4.2	28.9	95.2	55.9	150.1	(D)	2.2	44.6
34	Fabricated metal products ---	-	39	15	1.2	14.1	0.9	2.0	9.7	30.4	33.9	64.5	1.0	1.3	17.2
346	Metal forgings and stampings -----	-	6	4	0.6	7.2	0.5	1.1	5.4	17.7	18.5	38.4	0.4	(NA)	(NA)
35	Machinery, except electrical -	-	74	36	6.7	96.5	5.1	9.8	67.6	235.7	268.4	497.3	8.8	6.4	133.6
352	Farm and garden machinery -----	-	12	8	1.5	20.3	1.0	1.9	11.6	85.0	65.9	129.4	(D)	(NA)	(NA)
353	Construction and related machinery -----	-	11	6	1.7	26.3	1.3	2.4	17.9	72.9	73.4	143.8	(D)	1.7	41.4
355	Special industry machinery -----	-	11	6	0.7	8.8	0.4	0.9	6.2	21.7	8.4	28.6	(D)	0.6	9.4
36	Electric and electronic equipment -----	-	14	11	2.4	29.3	1.8	3.6	19.8	73.7	92.0	160.0	(D)	1.5	25.6
37	Transportation equipment ---	-	7	4	1.5	19.6	1.0	1.9	12.8	40.1	57.4	95.7	(D)	1.2	12.7
39	Miscellaneous manufacturing industries ---	-	19	7	1.3	9.3	1.0	1.9	6.3	21.4	20.1	41.2	0.6	1.2	14.0
--	Administrative and auxiliary --	-	12	11	2.1	38.9	-	-	-	-	-	-	-	(NA)	(NA)
	Duluth-Superior, Minn.-Wis., SMSA -----	-	299	79	9.4	110.9	5.7	12.7	70.6	260.2	483.4	735.6	(D)	10.4	165.5
20	Food and kindred products --	E1	29	15	1.9	18.3	1.5	3.2	12.9	58.4	117.3	176.3	6.0	2.5	49.4
24	Lumber and wood products --	-	66	8	0.9	10.2	0.7	1.3	7.4	21.3	17.6	39.1	1.9	0.9	17.0
249	Miscellaneous wood products -----	-	8	5	0.7	8.8	0.6	1.0	6.2	18.9	14.2	33.2	(D)	0.6	12.0
27	Printing and publishing -----	-	51	11	1.5	17.0	0.6	0.8	5.7	34.8	13.1	49.0	1.8	1.2	21.3
275	Commercial printing -----	-	28	6	0.4	4.1	0.3	0.4	2.7	6.8	3.0	9.8	0.8	0.3	3.9
32	Stone, clay, and glass products -----	-	28	5	0.3	4.7	0.2	0.5	3.5	23.7	20.4	44.2	1.7	0.5	13.0
33	Primary metal industries ---	-	8	5	0.5	8.2	0.4	0.8	8.8	9.6	40.7	50.4	0.9	(NA)	(NA)
34	Fabricated metal products ---	-	21	10	1.2	16.4	1.0	2.0	12.7	33.2	34.2	66.4	2.6	1.9	19.0
344	Fabricated structural metal products -----	-	10	4	0.4	6.2	0.3	0.6	4.1	13.6	22.9	35.3	(D)	(NA)	(NA)
35	Machinery, except electrical -	-	27	11	1.3	17.6	0.9	1.8	11.0	36.4	44.8	78.0	1.2	0.9	16.6
353	Construction and related machinery -----	-	8	7	1.0	13.5	0.6	1.3	8.2	28.5	39.9	65.4	(D)	0.8	11.6
	Eau Claire SMSA -----	-	177	57	8.7	114.4	8.5	13.5	85.1	271.5	428.6	888.9	19.0	5.2	141.4
20	Food and kindred products --	-	31	15	1.5	18.6	1.1	2.2	13.3	44.1	189.6	231.7	2.7	(NA)	(NA)
202	Dairy products -----	-	12	5	0.4	4.8	0.3	0.5	2.8	14.5	87.5	101.0	1.6	(NA)	(NA)
31	Leather and leather products -----	-	5	3	1.0	8.7	0.4	1.4	5.3	20.3	26.1	46.0	(D)	(NA)	(NA)
3143	Men's footwear, except athletic -----	-	3	3	1.0	8.5	0.4	1.3	5.2	20.0	25.9	45.6	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	16	4	0.6	7.0	0.5	1.0	5.9	17.0	19.4	36.0	(D)	(NA)	(NA)
35	Machinery, except electrical -	-	19	10	0.9	11.8	0.7	1.3	7.6	31.3	32.0	61.9	1.5	(NA)	(NA)
39	Miscellaneous manufacturing industries ---	E2	12	3	0.3	1.6	0.2	0.4	0.8	2.8	2.0	4.7	0.1	(NA)	(NA)

See footnotes at end of table.

Table 6. **Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.**

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977										1972		
			All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
		E ¹													
	Green Bay SMSA -----	-	279	111	20.3	290.9	14.9	29.9	199.4	874.9	1 697.6	2 566.3	140.1	17.5	383.6
20	Food and kindred products --	-	49	25	4.2	54.6	3.2	6.5	38.7	156.2	779.4	937.0	7.4	3.8	76.0
201	Meat products -----	-	9	7	1.2	18.2	0.9	2.0	12.0	45.6	333.0	375.8	1.0	(NA)	(NA)
202	Dairy products -----	-	24	10	1.8	24.6	1.4	2.7	19.0	70.3	403.7	478.5	5.4	1.7	39.6
24	Lumber and wood products --	-	23	10	0.4	4.2	0.4	0.7	3.1	8.3	11.6	19.7	0.5	(NA)	(NA)
26	Paper and allied products ---	-	21	18	7.5	127.5	5.8	12.2	95.9	489.6	698.8	1 180.7	121.7	6.9	186.6
264	Miscellaneous converted paper products -----	-	12	10	4.0	64.3	3.1	6.6	50.3	289.4	436.9	717.8	(D)	(NA)	(NA)
27	Printing and publishing -----	-	48	7	1.3	15.5	0.8	1.5	9.0	32.9	37.2	70.6	1.5	1.2	22.6
275	Commercial printing -----	-	30	3	0.4	4.3	0.3	0.5	3.2	8.9	10.7	19.6	0.4	0.4	6.1
32	Stone, clay, and glass products -----	E2	17	4	0.3	3.9	0.2	0.4	2.7	9.1	11.6	19.9	0.8	0.4	5.5
33	Primary metal industries ----	E1	9	6	0.4	5.2	0.3	0.5	3.4	11.7	27.1	38.4	0.8	(NA)	(NA)
34	Fabricated metal products ---	-	19	10	0.7	9.0	0.5	1.2	6.0	30.0	21.3	51.4	0.6	0.6	12.2
35	Machinery, except electrical -	-	42	13	3.0	45.0	2.0	3.8	27.3	90.8	50.5	143.1	3.5	2.5	50.0
355	Special industry machinery -----	-	11	6	1.7	26.8	1.1	2.1	15.4	49.3	30.3	79.2	2.0	0.9	18.7
39	Miscellaneous manufacturing industries ---	E1	8	1	0.3	0.5	0.2	0.2	0.3	1.0	0.9	2.0	0.1	(NA)	(NA)
3999	Manufacturing industries, n.e.c. -----	-	3	1	0.3	0.1	0.2	0.2	0.1	0.3	0.3	0.6	(D)	(NA)	(NA)
-	Administrative and auxiliary --	-	6	5	0.3	6.9	-	-	-	-	-	-	-	(NA)	(NA)
	Kenosha SMSA -----	-	145	44	17.7	246.2	13.1	21.4	170.2	416.6	1 058.0	1 480.3	14.6	15.8	382.5
20	Food and kindred products --	-	12	4	0.4	5.3	0.3	0.6	3.8	32.1	40.5	72.4	(D)	0.4	16.9
27	Printing and publishing -----	-	20	3	0.3	3.3	0.2	0.3	1.3	6.4	2.1	8.5	(D)	0.3	5.0
32	Stone, clay, and glass products -----	-	9	4	0.3	2.2	0.2	0.4	1.2	3.3	4.8	8.1	0.3	(NA)	(NA)
35	Machinery, except electrical -	-	35	7	1.2	18.3	0.8	1.5	10.7	34.3	22.9	55.0	(D)	(NA)	(NA)
	La Crosse SMSA -----	-	129	39	9.4	111.8	6.1	12.1	64.0	244.4	223.9	467.3	21.6	8.4	123.9
20	Food and kindred products --	-	18	5	1.0	14.3	0.6	1.3	7.6	54.6	75.9	135.5	5.3	0.9	24.4
24	Lumber and wood products --	-	12	3	0.4	3.2	0.3	0.6	2.5	5.7	6.9	12.5	(D)	(NA)	(NA)
27	Printing and publishing -----	E1	25	6	0.7	6.3	0.4	0.9	3.6	12.4	5.4	17.8	1.3	0.3	5.1
275	Commercial printing -----	E2	17	5	0.5	4.4	0.4	0.7	2.9	7.2	4.2	11.5	1.2	(NA)	(NA)
2751	Commercial printing, letterpress -----	-	10	3	0.3	3.0	0.3	0.6	2.0	4.9	2.4	7.3	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	12	6	0.8	9.1	0.7	1.4	7.2	23.9	13.4	36.3	0.8	0.5	7.8
39	Miscellaneous manufacturing industries ---	-	9	2	0.4	4.1	0.4	0.8	3.1	9.2	4.0	11.6	(D)	0.5	6.5
	Madison SMSA -----	-	436	132	18.2	264.5	12.3	24.4	160.3	536.7	882.7	1 414.2	34.3	16.2	300.0
20	Food and kindred products --	-	57	27	5.4	90.5	4.2	8.3	68.5	194.1	569.2	763.4	9.4	6.0	114.7
202	Dairy products -----	-	19	11	0.6	7.7	0.4	0.9	4.9	24.5	183.7	207.9	1.9	0.7	14.4
2026	Fluid milk -----	-	8	3	0.3	3.5	0.1	0.3	2.1	7.5	87.9	95.4	0.8	0.4	10.2
24	Lumber and wood products --	-	20	5	0.9	11.5	0.8	1.7	9.1	32.8	35.3	66.8	1.8	(NA)	(NA)
27	Printing and publishing -----	-	109	18	1.9	24.8	1.2	2.2	15.5	53.2	32.9	85.7	4.6	1.7	33.9
275	Commercial printing -----	-	50	9	0.6	8.3	0.5	0.8	5.4	14.6	12.6	27.0	1.7	0.7	10.7
28	Chemicals and allied products -----	E1	19	7	0.4	5.9	0.3	0.5	3.2	20.4	34.0	53.6	(D)	0.4	12.6
30	Rubber and miscellaneous plastics products -----	-	20	10	0.8	8.1	0.6	1.2	5.6	27.0	21.0	47.6	4.7	(NA)	(NA)
32	Stone, clay, and glass products -----	E1	19	8	0.6	7.4	0.5	1.0	5.8	16.4	12.0	28.6	0.7	0.6	11.7
33	Primary metal industries ----	-	9	5	0.7	8.8	0.6	1.2	7.3	14.8	9.6	24.5	0.9	0.6	9.8
34	Fabricated metal products ---	-	28	11	0.9	11.2	0.6	1.3	7.4	22.6	27.6	49.9	1.0	0.9	19.5
344	Fabricated structural metal products -----	-	16	8	0.7	8.9	0.5	1.0	5.8	16.7	20.6	36.8	0.8	0.7	16.2
35	Machinery, except electrical -	-	55	14	1.5	19.8	0.9	1.9	11.0	38.7	35.5	71.0	2.4	1.2	14.8
36	Electric and electronic equipment -----	-	15	4	0.6	6.8	0.5	0.9	4.7	17.8	28.8	44.3	1.1	0.5	17.3
38	Instruments and related products -----	-	12	4	1.0	12.4	0.6	1.3	7.6	43.7	22.5	67.9	0.9	0.8	20.4
-	Administrative and auxiliary --	-	18	11	1.7	36.3	-	-	-	-	-	-	-	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry		1977										1972		
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E1															
	Milwaukee SMSA -----	-	2 859	1 141	204.1	3 042.5	138.7	268.8	1 882.5	6 408.8	6 272.7	12 554.3	389.1	200.0	3 700.0
20	Food and kindred products --	-	172	90	17.2	280.1	11.3	23.0	181.4	714.2	1 374.6	2 089.8	82.7	17.4	439.3
201	Meat products -----	E1	32	15	2.5	38.1	2.0	3.8	28.7	70.0	364.4	432.1	2.5	2.2	55.8
2011	Meat packing plants -----	E2	11	6	1.7	27.7	1.4	2.7	22.0	50.9	318.1	367.2	(D)	1.5	44.4
202	Dairy products -----	-	23	9	1.1	16.5	0.6	1.3	9.2	61.9	183.5	244.2	3.8	1.5	39.0
2026	Fluid milk -----	-	9	5	0.6	9.4	0.2	0.6	4.0	25.0	96.7	121.6	2.4	0.9	22.8
204	Grain mill products -----	-	11	4	0.5	6.4	0.3	0.5	3.3	19.8	46.9	67.6	1.2	0.4	11.2
205	Bakery products -----	-	25	14	2.8	26.7	1.6	3.1	15.8	70.7	46.3	117.2	1.8	2.3	35.8
208	Beverages -----	-	32	16	8.1	166.8	5.2	10.8	108.4	408.3	567.6	981.9	68.3	8.3	244.2
209	Miscellaneous foods and kindred products -----	-	25	15	0.8	9.0	0.5	1.1	5.4	28.1	37.4	64.6	1.8	0.8	17.1
23	Apparel and other textile products -----	E1	54	26	2.0	18.1	1.6	2.9	11.0	33.8	32.7	68.6	2.0	2.3	24.0
233	Women's and misses' outerwear -----	-	7	5	0.9	9.5	0.7	1.4	5.4	17.9	16.2	34.1	(D)	1.0	10.9
239	Miscellaneous fabricated textile products -----	E2	31	12	0.6	4.6	0.5	0.8	3.0	8.5	11.7	20.4	(D)	0.5	5.4
25	Furniture and fixtures -----	-	50	14	0.9	11.6	0.7	1.3	7.1	25.6	20.1	45.3	0.8	0.7	13.2
254	Partitions and fixtures -----	-	23	5	0.3	3.7	0.2	0.4	2.4	8.0	7.4	15.3	(D)	0.3	3.9
2541	Wood partitions and fixtures -----	-	23	5	0.3	3.7	0.2	0.4	2.4	8.0	7.4	15.3	(D)	(NA)	(NA)
259	Miscellaneous furniture and fixtures -----	-	14	5	0.4	4.4	0.3	0.5	2.4	8.7	8.6	15.1	(D)	(NA)	(NA)
26	Paper and allied products ---	-	57	37	3.8	49.1	2.8	5.6	32.0	98.8	120.9	218.8	7.7	4.1	65.2
265	Paperboard containers and boxes -----	-	30	24	2.8	35.6	2.1	4.0	23.7	67.7	90.8	157.7	(D)	2.8	46.6
2651	Folding paperboard boxes -----	-	6	5	0.5	6.4	0.4	0.8	4.5	15.0	13.4	28.2	(D)	0.7	12.5
2653	Corrugated and solid fiber boxes -----	-	17	13	1.6	22.6	1.2	2.4	14.9	41.4	60.8	101.6	4.0	1.7	25.8
27	Printing and publishing -----	-	388	98	12.3	165.5	7.3	14.1	101.1	317.7	212.9	527.4	17.2	12.3	201.7
2711	Newspapers -----	-	36	13	3.7	40.2	1.2	2.3	16.6	87.1	96.2	123.2	2.2	3.9	55.4
2721	Periodicals -----	E1	29	7	0.4	4.8	0.1	0.2	1.1	11.8	5.8	17.3	(D)	0.5	9.3
273	Books -----	-	18	7	0.9	12.9	0.6	1.1	8.4	28.3	24.0	51.8	0.6	0.6	12.2
275	Commercial printing -----	-	232	45	5.7	86.7	4.3	8.4	61.9	158.8	127.3	282.0	12.3	5.9	104.1
2752	Commercial printing, lithographic -----	-	111	32	4.2	66.1	3.1	6.3	47.8	124.7	93.6	216.1	10.3	4.3	81.3
278	Blankbooks and bookbinding -----	-	15	8	0.8	9.1	0.5	1.1	5.5	14.0	7.0	20.9	(D)	0.8	9.9
279	Printing trade services -----	-	45	9	0.5	7.9	0.4	0.7	5.8	12.0	2.7	14.6	0.6	0.4	7.6
28	Chemicals and allied products -----	-	117	49	3.8	52.8	2.0	4.0	22.7	134.4	177.3	310.9	9.1	3.8	95.4
283	Drugs -----	-	7	6	0.4	5.5	0.2	0.3	1.9	15.7	12.2	27.6	(D)	(NA)	(NA)
284	Soaps, cleaners, and toilet goods -----	E2	23	9	0.6	5.9	0.3	0.7	3.3	17.8	14.8	32.5	0.5	(NA)	(NA)
2844	Toilet preparations -----	E1	4	2	0.3	2.1	0.2	0.4	1.5	4.8	2.1	6.9	0.1	(NA)	(NA)
2851	Paints and allied products -----	-	11	4	0.8	10.6	0.3	0.6	4.2	22.3	47.7	69.3	(D)	0.7	18.8
289	Miscellaneous chemical products -----	E1	50	18	1.2	17.2	0.6	1.3	7.5	39.6	55.8	98.5	1.3	0.8	23.5
2891	Adhesives and sealants -	-	11	4	0.5	6.8	0.3	0.7	3.6	14.1	23.7	38.7	(D)	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	E1	98	54	4.3	48.7	3.4	6.7	33.1	100.3	93.3	192.2	8.4	3.2	45.1
3069	Fabricated rubber products, n.e.c. -----	-	8	6	0.7	9.5	0.5	1.0	5.2	25.1	9.5	34.3	(D)	(NA)	(NA)
3079	Miscellaneous plastics products -----	E1	90	48	3.6	39.3	2.9	5.7	26.9	75.2	83.8	157.9	(D)	(NA)	(NA)
31	Leather and leather products -----	-	45	28	4.0	44.0	3.2	6.1	30.1	93.1	139.2	231.0	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	109	33	1.8	26.0	1.4	2.8	17.2	61.1	65.0	125.7	(D)	1.7	35.9
327	Concrete, gypsum, and plaster products -----	-	54	22	0.9	15.1	0.7	1.5	10.4	31.6	39.3	70.2	3.4	0.9	20.6
3272	Concrete products, n.e.c. -----	E1	19	7	0.4	5.8	0.3	0.7	4.4	9.2	7.6	16.4	0.8	0.4	7.7
3273	Ready-mixed concrete -----	-	25	11	0.4	6.4	0.3	0.6	4.4	14.6	24.4	38.9	2.2	0.3	7.8
329	Miscellaneous nonmetallic mineral products -----	E1	28	5	0.6	7.1	0.4	0.8	4.5	15.1	16.8	32.0	(D)	0.5	8.8
33	Primary metal industries ---	-	107	69	12.4	182.3	10.2	20.3	138.3	346.8	278.9	620.5	32.1	12.0	208.9
331	Blast furnace and basic steel products -----	-	8	4	1.3	23.0	1.2	2.6	19.6	40.7	72.8	113.4	(D)	(NA)	(NA)
332	Iron and steel foundries -----	-	41	38	7.6	112.9	6.2	12.1	84.7	210.9	115.9	322.9	15.8	7.0	111.0
3321	Gray iron foundries -----	-	22	20	2.4	33.9	2.0	3.8	28.0	59.3	43.1	101.8	5.7	2.5	38.8
336	Nonferrous foundries -----	-	28	17	2.2	28.3	1.8	3.6	21.6	52.5	45.7	98.3	5.4	2.4	44.8
3361	Aluminum foundries -----	-	22	15	2.1	27.0	1.8	3.4	20.5	50.7	43.5	94.3	(D)	1.5	24.7
34	Fabricated metal products ---	-	371	162	26.8	402.4	20.7	39.8	267.5	829.2	880.6	1 685.4	39.9	26.8	487.1
341	Metal cans and shipping containers -----	-	8	7	3.4	62.4	2.9	6.1	51.5	161.9	272.2	426.3	3.6	2.5	65.6
342	Cutlery, hand tools, and hardware -----	-	24	16	3.6	46.2	2.9	5.3	34.6	115.9	62.3	176.7	5.6	2.9	65.6
343	Plumbing and heating, except electric -----	-	6	3	0.5	6.6	0.3	0.6	3.3	18.1	14.0	32.5	(D)	0.7	18.8

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Milwaukee SMSA—Con.														
34	Fabricated metal products— Con.														
344	Fabricated structural metal products -----	-	107	45	5.2	75.7	3.4	6.6	44.7	150.2	188.3	325.9	7.7	5.4	97.4
345	Screw machine products, bolts, etc. -----	-	39	16	1.2	17.2	1.0	2.0	11.5	33.1	24.1	56.6	2.3	1.2	22.6
346	Metal forgings and stampings -----	-	60	37	8.3	134.8	6.4	11.9	98.1	219.8	238.7	459.7	15.0	8.2	139.5
3462	Iron and steel forgings -----	-	7	6	5.1	91.8	4.1	7.3	70.2	132.8	153.4	288.9	11.3	(NA)	(NA)
3469	Metal stampings, n.e.c. -----	-	50	28	2.5	32.7	1.9	3.6	20.6	66.5	68.1	134.7	3.1	3.2	49.9
3471	Plating and polishing -----	E2	43	9	0.8	7.9	0.6	1.2	5.5	13.5	6.0	19.5	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	67	23	3.1	41.0	2.6	4.9	30.5	98.2	64.3	159.3	3.8	3.9	52.4
3494	Valves and pipe fittings -----	-	10	7	2.1	27.0	1.8	3.3	21.3	67.0	35.8	100.0	2.4	2.9	37.9
3499	Fabricated metal products, n.e.c. -----	-	40	10	0.7	9.1	0.6	1.1	6.1	21.1	20.6	41.4	1.0	0.5	8.3
35	Machinery, except electrical -----	-	700	245	54.6	848.8	39.1	75.2	589.2	1 917.9	1 514.7	3 381.7	95.8	49.3	1 035.4
351	Engines and turbines -----	-	13	13	17.2	272.6	13.8	26.2	213.5	531.6	534.8	1 044.2	22.4	13.5	300.9
353	Construction and related machinery -----	-	63	40	11.4	178.6	7.7	14.5	115.4	480.5	353.9	828.9	27.6	11.5	214.3
354	Metalworking machinery -----	-	204	50	6.4	107.3	4.5	9.3	67.6	197.5	102.7	290.4	8.7	6.1	107.0
3541	Machine tools, metal cutting types -----	-	20	10	2.4	40.2	1.4	2.7	21.0	80.9	33.4	105.7	2.2	1.9	29.5
3544	Special dies, tools, jigs, and fixtures -----	-	147	29	2.8	47.9	2.2	4.8	34.4	71.9	27.9	98.9	5.0	3.0	49.8
355	Special industry machinery -----	-	54	26	3.0	44.2	1.8	3.5	23.4	96.1	76.7	169.1	5.0	3.0	67.3
3551	Food products machinery -----	-	10	5	1.1	15.5	0.7	1.4	9.9	28.2	19.2	45.4	2.8	1.2	20.1
3559	Special industry machinery, n.e.c. -----	-	26	11	1.3	19.1	0.7	1.3	8.8	48.8	39.2	87.5	1.4	1.4	39.0
356	General industrial machinery -----	-	104	39	8.0	123.1	5.3	10.3	73.5	285.2	154.5	434.9	12.5	7.5	158.1
3565	Industrial patterns -----	E1	36	5	0.4	8.1	0.4	0.8	6.7	12.0	2.9	14.9	(D)	0.3	5.4
3569	General industrial machinery, n.e.c. -----	-	17	6	0.8	11.1	0.5	1.1	5.8	22.3	18.9	41.8	(D)	1.0	21.4
358	Refrigeration and service machinery -----	-	30	11	1.8	28.5	1.1	2.3	15.0	78.2	72.8	151.3	3.5	1.4	39.5
3585	Refrigeration and heating equipment -----	E1	12	5	0.9	12.6	0.5	1.3	6.5	23.9	27.3	53.2	(D)	0.8	17.1
3589	Service industry machinery, n.e.c. -----	-	18	6	0.9	15.9	0.5	1.0	8.5	54.2	45.5	98.1	(D)	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E1	217	58	3.2	43.1	2.5	4.9	28.9	77.9	39.7	116.0	5.2	(NA)	(NA)
36	Electric and electronic equipment -----	-	154	72	31.0	454.0	20.0	39.0	256.8	944.7	606.8	1 511.3	56.9	32.3	566.6
361	Electric distributing equipment -----	-	19	9	3.3	55.2	2.0	3.8	32.3	165.7	108.2	265.6	(D)	3.5	81.8
362	Electrical industrial apparatus -----	-	42	25	14.1	207.5	9.0	18.4	119.8	383.4	202.1	570.4	17.5	15.1	234.3
363	Household appliances -----	-	5	5	4.5	57.1	2.7	5.1	29.6	136.5	126.4	255.9	3.8	(NA)	(NA)
364	Electric lighting and wiring equipment -----	-	17	7	0.9	10.2	0.7	1.3	5.6	14.8	19.9	34.7	1.3	1.0	15.7
367	Electronic components and accessories -----	-	34	10	1.6	16.4	1.3	2.4	10.9	44.4	24.8	67.9	2.2	1.8	29.2
3679	Electronic components, n.e.c. -----	-	22	5	0.8	9.5	0.6	1.1	5.5	31.8	16.6	47.8	1.3	(NA)	(NA)
37	Transportation equipment -----	-	48	26	11.2	187.0	8.8	15.8	138.4	578.1	545.9	1 128.3	19.3	(NA)	(NA)
38	Instruments and related products -----	-	49	19	3.7	45.0	2.1	4.1	20.9	83.3	67.1	157.4	5.0	2.1	43.4
382	Measuring and controlling devices -----	-	16	4	0.9	14.8	0.6	1.2	8.3	32.7	14.3	45.8	(D)	(NA)	(NA)
384	Medical instruments and supplies -----	-	13	4	0.8	8.2	0.5	1.1	4.3	16.4	16.8	32.7	0.9	(NA)	(NA)
3861	Photographic equipment and supplies -----	-	8	5	1.0	11.0	0.7	1.3	5.3	25.9	22.6	47.0	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	126	37	3.1	31.8	2.2	4.3	18.1	70.9	70.5	141.2	2.7	3.2	53.5
394	Toys and sporting goods -----	-	28	11	0.6	5.2	0.4	0.8	3.1	14.3	15.1	29.4	0.4	0.6	8.4
3949	Sporting and athletic goods, n.e.c. -----	-	23	9	0.5	4.3	0.4	0.7	2.9	11.8	12.3	23.9	(D)	0.5	6.5
399	Miscellaneous manufactures -----	-	79	23	2.2	24.8	1.6	3.2	13.6	49.6	49.9	99.4	2.2	2.3	41.5
3991	Brooms and brushes -----	-	7	5	0.7	7.7	0.5	1.1	3.9	18.0	22.3	40.0	(D)	(NA)	(NA)
3993	Signs and advertising displays -----	-	37	13	1.2	13.8	0.8	1.6	7.8	25.5	21.9	47.6	1.3	1.3	23.1
	Minneapolis-St. Paul, Minn.-Wis., SMSA -----	-	3 961	1 349	216.9	3 331.3	127.4	245.6	1 562.4	6 408.0	7 407.6	13 645.1	353.3	199.0	3 734.8
20	Food and kindred products -----	-	237	120	14.8	207.3	9.9	19.8	129.3	575.4	1 572.3	2 158.2	37.9	16.8	415.4
201	Meat products -----	-	23	14	2.9	48.4	2.3	4.5	37.7	81.8	407.8	486.6	3.8	3.3	55.8
2011	Meat packing plants -----	-	8	6	1.9	37.5	1.5	3.2	30.8	58.5	339.4	398.3	(D)	2.8	50.5

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture ² (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Minneapolis-St. Paul, Minn.-Wis., SMSA—Con.														
20	Food and kindred products—Con.														
202	Dairy products -----	-	37	18	1.7	25.0	0.8	1.8	10.6	62.4	262.1	322.3	8.8	2.3	45.8
2023	Condensed and evaporated milk -----	E3	8	3	0.4	5.9	0.2	0.4	2.0	15.6	35.6	50.9	(D)	(NA)	(NA)
2026	Fluid milk -----	-	20	10	0.9	14.4	0.3	0.8	5.0	28.0	154.9	182.7	4.3	1.5	25.8
203	Preserved fruits and vegetables -----	-	23	9	1.6	15.9	1.3	2.5	11.2	54.5	81.5	136.1	5.5	1.4	21.4
2033	Canned fruits and vegetables -----	-	6	4	0.5	3.8	0.4	0.8	2.7	11.1	18.8	29.9	0.4	0.7	10.6
204	Grain mill products -----	-	40	22	1.7	22.8	1.2	2.3	14.9	91.5	250.7	344.2	5.1	1.6	69.1
2041	Flour and other grain mill products -----	-	10	8	0.6	9.5	0.5	1.0	7.2	33.1	140.8	174.8	(D)	0.6	19.4
2048	Prepared feeds, n.e.c. --	-	17	8	0.6	7.8	0.3	0.8	3.4	21.5	80.4	101.8	0.7	0.7	28.9
2051	Bread, cake, and related products -----	-	33	18	1.8	24.6	1.1	2.2	13.9	50.9	39.2	90.1	1.9	(NA)	(NA)
207	Fats and oils -----	-	11	7	0.4	6.4	0.3	0.8	4.7	32.4	197.5	242.4	5.2	0.5	21.2
208	Beverages -----	-	25	13	2.4	37.4	1.3	2.7	20.4	116.5	207.0	324.2	5.4	3.0	104.8
2086	Bottled and canned soft drinks -----	-	15	9	1.3	19.4	0.5	1.1	6.0	48.9	67.5	115.8	3.0	(NA)	(NA)
209	Miscellaneous foods and kindred products -----	-	36	14	1.1	13.7	0.7	1.2	5.9	46.1	54.0	100.2	1.6	1.3	33.2
2099	Food preparations, n.e.c. -----	-	21	6	0.6	7.5	0.3	0.8	3.1	18.5	25.0	43.6	0.7	1.0	22.7
22	Textile mill products -----	E1	14	8	1.2	10.5	1.0	2.0	7.8	12.7	41.2	54.2	1.5	0.9	7.3
23	Apparel and other textile products -----	E1	113	37	2.6	21.7	2.1	3.6	13.7	42.4	44.5	86.1	1.4	3.4	31.7
232	Men's and boys' furnishings -----	-	8	3	0.3	2.4	0.3	0.4	2.0	4.6	3.0	7.5	0.1	0.6	7.2
233	Women's and misses' outerwear -----	E2	26	9	0.5	3.4	0.4	0.6	2.2	7.0	5.8	12.8	0.1	0.8	6.8
239	Miscellaneous fabricated textile products -----	E1	58	14	1.0	9.0	0.8	1.4	5.2	18.8	20.0	38.7	1.2	1.0	6.0
24	Lumber and wood products --	-	139	37	5.4	78.1	4.4	7.6	58.6	166.6	265.1	437.6	8.3	3.4	71.8
243	Millwork, plywood, and structural members -----	-	68	22	4.4	65.5	3.8	6.3	50.5	130.5	209.8	346.2	5.8	2.9	61.1
2434	Wood kitchen cabinets -----	E2	40	6	0.7	7.4	0.6	1.1	5.2	13.0	10.3	23.0	(D)	0.7	7.9
249	Miscellaneous wood products -----	E1	32	6	0.3	3.0	0.3	0.4	1.8	6.5	11.5	18.2	0.3	(NA)	(NA)
25	Furniture and fixtures -----	E1	95	25	1.9	23.3	1.5	2.7	14.1	42.8	35.7	77.8	1.0	1.9	27.1
251	Household furniture -----	E1	40	8	1.0	10.0	0.7	1.3	6.0	16.3	16.2	32.2	0.3	1.0	12.2
2511	Wood household furniture -----	E3	22	2	0.4	3.5	0.4	0.7	2.8	4.4	6.0	10.2	0.1	0.3	3.1
2515	Mattresses and bedsprings -----	-	10	5	0.4	5.5	0.3	0.4	2.5	10.3	8.5	18.7	0.1	0.4	5.8
254	Partitions and fixtures -----	-	35	11	0.5	7.6	0.4	0.8	4.9	14.7	10.1	24.4	0.5	0.6	8.9
2541	Wood partitions and fixtures -----	-	26	8	0.4	5.8	0.3	0.6	3.7	11.3	7.8	18.9	0.2	0.4	6.1
26	Paper and allied products ---	-	74	41	5.8	61.7	4.4	9.2	54.9	179.0	208.2	385.1	13.2	9.2	241.5
264	Miscellaneous converted paper products -----	-	43	15	2.5	30.6	2.0	3.9	20.2	58.2	55.3	111.7	5.4	5.7	167.6
2642	Envelopes -----	-	10	6	0.7	10.6	0.6	1.1	6.7	17.4	15.7	32.7	0.6	0.9	12.2
2645	Die-cut paper and board -----	-	6	2	1.1	11.3	0.9	1.8	8.5	16.6	12.8	29.2	(D)	(NA)	(NA)
2651	Folding paperboard boxes -----	-	11	8	0.9	13.3	0.7	1.4	9.7	28.9	37.5	65.8	3.1	(NA)	(NA)
2653	Corrugated and solid fiber boxes -----	-	14	13	1.5	23.3	1.0	2.1	13.4	50.0	74.7	124.8	2.4	(NA)	(NA)
27	Printing and publishing -----	-	650	147	20.8	300.8	12.7	22.8	168.4	574.9	310.7	883.2	34.9	16.5	321.3
2711	Newspapers -----	-	78	12	4.5	66.6	1.9	3.1	31.2	135.0	46.3	181.2	5.6	4.5	87.1
2721	Periodicals -----	E1	48	9	0.7	9.0	0.2	0.3	1.8	25.1	10.0	35.2	(D)	0.5	16.7
273	Books -----	-	28	10	3.4	52.4	2.2	3.9	25.3	105.6	47.7	152.2	(D)	2.5	51.9
2731	Book publishing -----	-	23	7	3.2	50.2	2.1	3.7	24.2	101.1	45.3	145.4	(D)	(NA)	(NA)
2741	Miscellaneous publishing -----	E1	29	5	0.7	8.2	0.2	0.4	3.1	12.5	9.1	21.6	0.6	0.8	7.6
275	Commercial printing -----	E1	369	73	9.1	131.5	6.4	11.7	84.8	232.9	169.7	401.4	17.9	6.4	123.0
2751	Commercial printing, letterpress -----	E1	178	19	1.8	22.0	1.4	2.5	14.5	39.7	28.1	67.8	2.9	1.6	26.1
2752	Commercial printing, lithographic -----	E1	180	52	7.2	107.6	4.9	9.1	69.1	190.2	140.1	329.2	14.9	4.7	95.5
2761	Manifold business forms -----	E4	13	7	0.5	6.5	0.3	0.6	3.8	12.3	11.2	23.4	0.9	(NA)	(NA)
2782	Blankbooks and looseleaf binders -----	-	8	5	0.5	5.8	0.4	0.8	4.4	14.5	4.9	19.3	(D)	0.6	10.2
279	Printing trade services -----	E1	83	23	1.2	18.5	0.9	1.6	12.6	33.5	10.8	44.1	2.4	0.9	16.5
2791	Typesetting -----	-	45	15	0.8	10.9	0.6	1.1	7.5	20.6	7.1	27.6	1.5	0.6	9.8
2795	Lithographic platemaking services --	E1	13	7	0.3	6.7	0.2	0.4	4.5	11.4	3.3	14.6	(D)	(NA)	(NA)
28	Chemicals and allied products -----	-	113	40	4.9	71.3	2.8	5.2	35.1	338.8	331.9	686.2	8.0	5.2	243.3
282	Plastics materials and synthetics -----	-	4	1	1.1	20.2	0.7	1.3	11.4	88.6	74.3	161.2	0.4	(NA)	(NA)
283	Drugs -----	-	10	4	0.3	4.7	0.2	0.3	1.4	11.8	14.3	25.8	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Minneapolis-St. Paul, Minn.-Wis., SMSA—Con.														
28	Chemicals and allied products—Con.														
284	Soaps, cleaners, and toilet goods-----	-	36	13	2.1	28.3	1.2	2.0	13.3	180.6	133.2	312.8	3.4	2.1	120.1
2841	Soap and other detergents-----	E1	14	5	0.3	3.7	0.1	0.2	1.3	11.2	13.3	24.2	(D)	(NA)	(NA)
2844	Toilet preparations-----	-	10	5	1.6	20.5	1.0	1.7	10.9	156.0	106.2	261.9	1.4	1.8	112.1
2851	Paints and allied products-----	-	18	6	0.5	6.2	0.3	0.5	2.9	17.0	27.9	45.0	0.6	0.7	20.7
289	Miscellaneous chemical products-----	E1	31	10	0.5	7.2	0.3	0.5	3.0	18.0	23.6	41.2	0.9	1.9	85.7
29	Petroleum and coal products-----	-	21	11	1.3	24.3	1.0	2.1	17.7	258.8	991.9	1 261.7	10.4	1.4	64.7
30	Rubber and miscellaneous plastics products-----	-	189	81	7.4	83.5	5.7	10.6	53.8	172.1	168.5	338.8	14.8	6.1	103.8
3079	Miscellaneous plastics products-----	-	168	69	6.1	67.2	4.8	8.9	42.7	143.9	149.0	290.3	12.4	5.1	83.5
31	Leather and leather products-----	-	14	6	0.3	3.0	0.3	0.5	2.1	7.0	11.3	18.3	0.3	(NA)	(NA)
32	Stone, clay, and glass products-----	-	140	35	5.8	90.5	4.4	8.6	63.3	293.5	222.2	470.4	9.8	2.8	59.2
3272	Concrete products, n.e.c.-----	-	36	8	0.6	8.7	0.5	1.0	5.8	20.0	17.9	37.7	1.0	0.7	13.5
3273	Ready-mixed concrete-----	-	38	9	0.6	9.5	0.4	0.9	6.9	18.8	29.6	48.3	2.7	0.6	12.7
33	Primary metal industries-----	-	81	46	5.5	79.4	4.6	9.1	59.5	154.1	182.3	337.1	13.2	4.8	85.1
331	Blast furnace and basic steel products-----	-	7	3	1.2	21.8	1.0	1.9	16.1	44.7	83.8	131.6	(D)	1.1	24.0
332	Iron and steel foundries-----	-	21	13	1.5	20.3	1.3	2.4	15.7	43.5	24.5	66.9	2.6	1.3	23.9
336	Nonferrous foundries-----	-	25	17	1.9	27.3	1.6	3.4	20.7	40.7	39.4	79.3	2.4	1.6	26.3
3361	Aluminum foundries-----	-	18	15	1.7	25.2	1.5	3.1	19.3	35.5	36.7	71.5	(D)	1.4	22.8
339	Miscellaneous primary metal products-----	-	15	8	0.6	6.7	0.5	0.9	4.8	13.5	6.3	19.7	0.9	0.5	6.8
34	Fabricated metal products-----	-	461	200	23.7	349.2	16.9	33.5	212.0	642.7	624.7	1 208.0	68.4	27.2	495.8
341	Metal cans and shipping containers-----	-	9	7	1.1	21.2	0.9	1.9	17.2	83.5	106.8	191.7	(D)	1.1	43.2
342	Cutlery, hand tools, and hardware-----	E1	32	7	0.8	9.5	0.6	1.2	6.4	24.2	23.0	46.8	0.9	0.9	15.7
3429	Hardware, n.e.c.-----	E1	19	5	0.7	7.7	0.5	1.0	5.3	18.3	16.4	34.4	0.8	0.5	9.1
343	Plumbing and heating, except electric-----	-	14	2	0.3	3.6	0.2	0.4	2.5	7.1	8.3	15.7	(D)	0.6	12.8
344	Fabricated structural metal products-----	-	154	65	6.0	83.7	4.2	7.9	50.0	164.2	191.8	346.9	7.0	45.0	93.3
3441	Fabricated structural metal-----	E2	25	15	1.3	18.1	0.9	1.9	11.4	36.2	55.2	88.5	1.3	1.7	27.0
3442	Metal doors, sash, and trim-----	-	18	8	0.8	9.5	0.6	1.1	5.3	16.4	15.8	31.9	0.8	0.7	11.0
3443	Fabricated plate work (boiler shops)-----	-	24	11	1.8	27.9	1.2	2.0	15.5	56.8	54.7	105.7	2.7	0.7	15.5
3444	Sheet metal work-----	-	63	22	1.3	16.9	1.0	1.9	11.5	34.0	31.6	64.5	1.9	1.0	20.0
3449	Miscellaneous metal work-----	-	6	3	0.5	6.7	0.3	0.6	4.2	12.0	28.4	41.4	0.1	0.5	12.5
345	Screw machine products, bolts, etc.-----	-	35	22	1.4	19.2	1.2	2.4	14.1	38.4	22.2	60.2	2.7	1.3	21.6
3451	Screw machine products-----	-	29	16	1.0	13.5	0.9	1.8	10.4	22.0	13.2	35.2	1.6	1.1	16.8
3452	Bolts, nuts, rivets, and washers-----	-	6	6	0.4	5.7	0.3	0.6	3.7	16.4	9.0	25.0	1.1	(NA)	(NA)
346	Metal forgings and stampings-----	-	61	37	3.1	40.6	2.5	4.9	28.6	70.5	48.5	118.8	3.9	2.8	45.9
3469	Metal stampings, n.e.c.-----	-	61	37	3.1	40.6	2.5	4.9	28.6	70.5	48.5	118.8	3.9	2.8	45.9
347	Metal services, n.e.c.-----	-	72	31	1.7	18.5	1.4	2.8	13.3	32.0	15.5	47.4	1.4	1.2	18.1
3471	Plating and polishing-----	-	41	18	1.0	12.3	0.8	1.6	8.8	20.5	10.1	30.5	0.9	0.8	12.7
3479	Metal coating and allied services-----	E1	31	13	0.7	6.2	0.6	1.2	4.5	11.5	5.5	16.8	0.5	0.4	5.4
348	Ordinance and accessories, n.e.c.-----	-	7	5	7.1	125.2	4.4	9.1	63.4	162.5	151.7	266.1	(D)	12.5	211.8
349	Miscellaneous fabricated metal products-----	-	77	24	2.1	27.8	1.5	2.9	16.5	60.2	56.8	114.5	3.4	1.9	33.5
3494	Valves and pipe fittings-----	-	9	6	0.7	8.9	0.5	0.8	5.3	20.5	15.2	34.8	(D)	(NA)	(NA)
3499	Fabricated metal products, n.e.c.-----	E1	46	8	0.9	12.1	0.6	1.2	6.6	25.9	24.4	49.7	2.1	0.8	11.2
35	Machinery, except electrical-----	-	781	232	46.1	674.3	27.4	54.4	345.9	1 584.7	1 053.3	2 590.2	61.6	42.6	909.1
352	Farm and garden machinery-----	-	39	17	1.6	19.9	1.3	2.4	14.6	41.5	40.9	86.4	2.1	2.1	41.6
353	Construction and related machinery-----	-	47	24	4.1	58.9	2.6	5.1	35.6	119.9	133.2	249.8	5.3	4.7	69.6
3535	Conveyors and conveying equipment-----	-	14	7	0.8	10.6	0.4	0.8	5.1	20.4	19.6	40.0	1.2	0.7	11.7
3537	Industrial trucks and tractors-----	-	8	4	0.4	6.0	0.3	0.5	3.7	6.9	13.9	22.8	(D)	(NA)	(NA)
3541	Machine tools, metal cutting types-----	-	16	6	1.2	18.9	0.8	1.6	11.0	36.9	18.5	52.5	1.7	0.6	9.1

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expen- diture (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
35	Minneapolis-St. Paul, Minn.-Wis., SMSA—Con. Machinery, except electrical —Con.														
3544	Special dies, tools, jigs, and fixtures -----	E1	110	14	1.1	15.9	0.9	1.8	11.9	26.3	14.1	40.0	2.1	1.3	23.0
3549	Metalworking machinery, n.e.c. -----	-	9	4	0.7	12.1	0.4	0.8	6.8	24.7	13.2	36.5	2.4	0.6	14.6
355	Special industry machinery -----	-	54	22	2.1	29.1	1.3	2.5	16.2	62.2	48.0	108.0	1.4	1.7	32.7
3551	Food products machinery -----	E1	14	8	0.7	9.0	0.4	0.8	5.0	20.2	19.9	38.1	0.5	0.4	7.4
3553	Woodworking machinery -----	-	8	4	0.4	5.6	0.2	0.5	3.1	14.0	7.3	21.1	0.2	(NA)	(NA)
3559	Special industry machinery, n.e.c. -----	-	19	7	0.9	12.3	0.6	1.0	6.9	23.8	17.7	41.6	0.5	0.7	13.2
356	General industrial machinery -----	-	104	38	6.3	89.8	3.9	7.9	50.7	213.5	126.6	331.9	6.0	5.3	117.4
3564	Blowers and fans -----	-	19	9	1.2	16.1	0.8	1.4	9.5	36.9	26.6	62.4	1.2	0.6	15.4
3566	Speed changers, drives, and gears -----	E1	9	3	0.3	4.1	0.2	0.4	2.2	8.1	5.1	13.5	0.7	0.6	10.5
3568	Power transmission equipment, n.e.c. -----	-	5	4	0.4	5.7	0.3	0.6	3.1	15.0	5.3	19.5	(D)	0.3	5.3
3569	General industrial machinery, n.e.c. -----	-	36	12	1.4	18.4	0.9	1.8	11.0	38.2	22.1	59.8	0.9	0.9	18.4
357	Office and computing machines -----	-	46	20	17.6	274.3	8.1	16.6	104.2	720.8	404.2	1 095.6	21.6	(NA)	(NA)
3573	Electronic computing equipment -----	-	38	18	17.2	269.5	7.9	16.2	102.3	710.4	398.9	1 079.2	20.9	(NA)	(NA)
358	Refrigeration and service machinery -----	-	52	23	6.7	90.7	4.2	7.9	46.5	219.9	200.7	418.5	9.6	6.3	149.6
3585	Refrigeration and heating equipment -----	-	23	13	3.6	49.1	2.5	4.6	28.9	121.8	132.0	252.8	2.5	2.9	75.8
36	Electric and electronic equipment -----	-	215	85	22.0	304.5	14.3	27.3	165.6	741.5	503.5	1 229.7	37.3	13.3	274.3
3622	Industrial controls -----	-	15	7	0.9	14.4	0.4	0.7	3.9	25.2	17.9	43.0	(D)	0.6	11.5
3679	Electronic components, n.e.c. -----	E3	57	22	3.6	42.0	2.7	5.3	28.3	78.8	38.1	115.6	3.7	(NA)	(NA)
3699	Electrical equipment and supplies, n.e.c. -----	E2	15	8	0.5	5.0	0.4	0.7	3.1	8.6	8.2	16.6	0.5	(NA)	(NA)
37	Transportation equipment -----	-	71	22	3.7	85.9	3.1	6.3	50.6	169.1	578.8	749.4	8.1	4.3	141.8
3714	Motor vehicle parts and accessories -----	E1	26	7	0.5	6.6	0.3	0.6	4.0	14.0	11.6	25.4	1.6	(NA)	(NA)
38	Instruments and related products -----	-	112	45	11.0	149.5	6.9	13.5	80.9	311.7	174.1	464.3	12.3	8.4	167.8
3823	Process control instruments -----	-	8	6	1.6	24.2	0.8	1.7	9.9	56.1	29.2	79.3	2.0	(NA)	(NA)
384	Medical instruments and supplies -----	E1	54	18	1.9	20.3	1.3	2.3	11.0	42.4	29.9	70.1	2.4	0.9	19.7
3841	Surgical and medical instruments -----	E1	24	7	0.6	7.5	0.3	0.5	2.2	17.4	9.6	26.6	0.9	(NA)	(NA)
3842	Surgical appliances and supplies -----	-	21	10	1.2	11.9	1.0	1.7	8.3	23.1	16.4	37.8	1.4	0.7	15.4
3861	Photographic equipment and supplies -----	-	10	5	1.4	20.5	0.6	1.1	8.1	39.8	18.8	56.8	1.0	1.2	20.1
39	Miscellaneous manufacturing industries -----	-	182	43	5.2	52.2	4.1	7.2	31.3	140.0	87.5	226.9	10.9	5.5	70.3
394	Toys and sporting goods -----	-	60	18	3.2	32.0	2.6	4.4	18.8	94.1	57.6	151.9	8.2	3.2	38.5
3944	Games, toys, and children's vehicles -----	-	17	5	2.2	23.0	1.8	2.8	13.1	72.2	32.6	107.1	6.4	1.9	23.3
399	Miscellaneous manufactures -----	-	94	21	1.8	17.4	1.4	2.5	10.9	38.5	25.7	63.6	2.6	1.9	25.6
3993	Signs and advertising displays -----	-	44	11	0.8	9.7	0.6	1.2	6.4	20.2	12.1	32.0	1.5	1.2	16.0
3999	Manufacturing industries, n.e.c. -----	E3	45	7	0.5	3.6	0.3	0.5	2.0	7.6	4.8	12.4	(D)	0.4	5.5
-	Administrative and auxiliary -----	-	159	88	27.6	660.6	-	-	-	-	-	-	-	(NA)	(NA)
	Racine SMSA -----	-	405	147	27.2	385.8	17.5	34.0	212.3	980.7	761.8	1 743.0	55.5	25.8	589.6
20	Food and kindred products -----	-	17	7	1.2	11.1	0.8	1.6	8.3	94.6	75.9	168.8	0.5	1.1	34.3
27	Printing and publishing -----	-	36	9	1.7	22.1	0.9	1.7	10.4	46.6	34.9	80.6	1.2	0.8	14.5
275	Commercial printing -----	E1	21	5	0.4	3.9	0.3	0.5	2.2	6.5	4.1	10.5	0.3	(NA)	(NA)
33	Primary metal industries -----	-	22	9	2.4	33.2	1.9	3.8	25.3	60.6	45.8	105.0	8.7	2.2	21.5
34	Fabricated metal products -----	-	67	28	3.0	39.7	2.2	4.2	27.0	71.2	73.2	145.7	4.8	2.4	48.4
344	Fabricated structural metal products -----	E1	13	5	0.8	11.0	0.5	1.1	8.1	16.7	15.3	32.8	0.3	(NA)	(NA)
345	Screw machine products, bolts, etc. -----	E1	13	5	0.3	2.6	0.2	0.5	1.9	5.4	2.5	7.8	0.4	(NA)	(NA)
346	Metal forgings and stampings -----	-	14	10	0.8	11.6	0.6	1.3	8.1	21.3	32.6	53.4	2.8	0.7	15.3
3465	Automotive stampings -----	-	3	3	0.4	6.2	0.3	0.7	4.5	11.2	13.3	24.2	(D)	(NA)	(NA)

See footnotes at end of table.

Table 6. **Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972—Con.**

[Includes industry groups and industries with 250 employees or more within SCSA's and SMSA's, except those that would disclose operations of individual companies. For definitions of SCSA's and SMSA's, see appendix A. For explanation of terms, see appendix B]

SIC code	SMSA and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expendi- tures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Racine SMSA—Con.														
35	Machinery, except electrical -	-	120	34	8.0	125.3	6.0	11.5	83.9	310.2	291.9	604.1	22.7	7.4	166.8
354	Metalworking machinery ---	-	41	7	0.8	11.5	0.6	1.1	6.8	23.7	14.2	37.7	1.4	(NA)	(NA)
358	General industrial machinery -----	-	13	6	2.1	31.2	1.5	2.7	19.7	58.7	36.8	95.4	(D)	2.1	47.1
36	Electric and electronic equipment -----	-	31	17	2.9	29.2	2.2	4.0	17.1	74.1	58.2	132.7	4.5	2.1	39.1
38	Instruments and related products -----	E1	8	5	0.4	4.5	0.3	0.7	2.4	8.4	5.2	13.3	1.7	(NA)	(NA)

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).
- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (S) Withheld because estimate did not meet publication standards.
(Z) Less than 50 thousand dollars or hours; under 50 employees.
¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.
²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 7. **Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972**

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of materials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expendi- tures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Ashland County -----	-	49	15	1.4	13.3	1.3	2.3	10.9	35.6	34.5	68.9	1.8	1.3	20.2
24	Lumber and wood products --	E1	30	6	0.7	5.1	0.6	1.1	4.4	13.6	12.8	25.7	0.4	0.5	5.9
	Barron County-----	-	76	28	3.3	31.1	2.7	5.2	22.8	77.7	173.2	249.9	9.7	2.6	38.8
20	Food and kindred products --	-	25	11	1.2	10.5	0.9	1.7	7.5	29.5	118.3	148.1	(D)	0.9	13.4
24	Lumber and wood products --	-	11	4	0.5	4.0	0.5	0.9	3.3	6.2	4.9	10.7	(D)	(NA)	(NA)
34	Fabricated metal products ---	-	7	5	0.6	6.1	0.5	1.0	4.3	15.7	15.8	31.0	(D)	(NA)	(NA)
	Brown County (Coextensive with Green Bay, Wis., SMSA; see table 6.)														
	Burnett County -----	-	24	9	0.6	5.2	0.5	0.9	3.8	11.5	17.0	28.8	1.1	0.4	4.4
	Calumet County -----	-	59	24	5.0	64.0	4.1	7.8	49.3	173.6	251.0	420.2	10.5	4.5	87.2
	Chippewa County -----	-	103	33	4.1	43.2	2.8	6.0	30.3	111.4	246.5	353.9	8.0	5.7	118.1
20	Food and kindred products --	-	20	8	0.8	8.5	0.6	1.2	6.8	23.4	142.1	163.6	1.8	0.7	9.3
314	Footwear, except rubber --	-	3	3	1.0	8.5	0.4	1.3	5.2	20.0	25.9	45.6	(D)	0.6	9.8
3143	Men's footwear, except athletic-----	-	3	3	1.0	8.5	0.4	1.3	5.2	20.0	25.9	45.6	(D)	(NA)	(NA)
35	Machinery, except electrical--	-	11	7	0.6	7.0	0.4	0.9	4.7	16.9	21.6	37.9	(D)	(NA)	(NA)
	Clark County -----	-	97	18	1.6	15.4	1.3	2.4	12.1	36.2	119.2	154.5	2.5	1.6	21.7
20	Food and kindred products --	-	42	8	0.6	5.4	0.4	0.9	4.3	14.7	99.0	113.1	(D)	0.5	8.1
	Columbia County -----	-	85	33	3.4	32.4	2.8	5.4	22.8	75.0	105.8	175.6	3.8	3.1	61.5
20	Food and kindred products --	-	16	9	0.8	6.8	0.7	1.5	5.5	16.8	41.9	58.8	(D)	0.7	14.1
203	Preserved fruits and vegetables-----	-	8	7	0.7	5.8	0.7	1.3	4.9	11.0	28.8	39.9	(D)	0.6	10.7
35	Machinery, except electrical--	-	15	7	0.5	6.8	0.4	0.8	4.3	18.2	14.1	31.0	(D)	(NA)	(NA)

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
202 203 2033	Crawford County -----	-	33	7	0.9	9.7	0.7	1.4	7.3	53.8	53.2	106.8	1.5	0.8	20.5
	Dane County (Coextensive with Madison, Wis., SMSA; see table 6.)														
	Dodge County -----	-	144	58	8.7	107.1	6.8	13.2	75.5	277.6	309.3	564.4	11.6	8.8	145.4
	Dairy products -----	-	16	6	0.7	7.6	0.5	1.0	5.8	27.1	86.4	111.6	(D)	0.8	11.8
	Preserved fruits and vegetables -----	-	9	7	1.4	11.4	1.3	2.4	9.4	46.3	41.5	87.8	(D)	1.2	20.4
	Canned fruits and vegetables -----	-	9	7	1.4	11.4	1.3	2.4	9.4	46.3	41.5	87.8	(D)	(NA)	(NA)
	Door County -----	-	48	14	3.5	39.2	3.1	5.7	30.0	112.0	94.4	207.1	7.3	1.8	22.2
	Douglas County -----	-	49	12	1.0	12.5	0.8	1.4	8.7	54.6	210.6	258.3	5.2	1.6	36.7
	Dunn County -----	-	35	9	0.9	9.5	0.8	1.5	7.1	26.8	53.7	79.3	2.0	0.6	13.8
	Eau Claire County -----	-	74	24	4.7	71.2	3.7	7.5	54.8	180.2	182.1	335.0	11.0	5.2	141.7
20	Food and kindred products --	-	11	7	0.6	9.2	0.4	1.0	6.5	20.7	47.5	68.0	0.9	0.8	49.0
	Fond du Lac County -----	-	139	60	10.8	139.1	7.6	14.6	87.7	377.8	625.4	1 000.9	13.5	10.8	237.1
20 202 203	Food and kindred products --	-	32	15	1.9	19.1	1.6	3.1	14.5	70.1	210.8	279.9	(D)	1.7	43.0
	Dairy products -----	-	15	6	0.7	9.2	0.6	1.2	7.2	27.2	150.0	176.1	(D)	0.6	24.1
	Preserved fruits and vegetables -----	-	7	6	0.7	4.8	0.6	1.1	4.1	29.1	31.4	60.5	(D)	0.7	10.8
34	Fabricated metal products ---	-	11	7	0.5	6.1	0.4	0.8	4.5	15.9	17.9	34.7	(D)	0.5	12.5
	Forest County -----	-	40	4	0.6	5.3	0.5	0.8	4.0	11.2	9.5	20.5	0.9	0.7	7.8
	Grant County -----	-	78	20	2.0	16.9	1.6	3.1	12.2	32.0	59.7	120.9	2.9	1.2	16.9
36	Electric and electronic equipment -----	-	6	6	1.2	8.9	1.1	2.1	7.5	12.1	27.3	39.8	0.7	0.6	7.2
	Green County -----	-	64	20	2.2	21.2	1.9	3.5	16.0	63.9	127.2	189.3	4.9	2.1	40.7
20	Food and kindred products --	E1	29	9	0.5	4.8	0.4	0.7	3.6	23.9	72.1	94.5	(D)	0.6	19.0
	Green Lake County -----	-	52	20	2.4	22.6	2.0	3.9	16.4	53.2	46.3	99.3	2.9	2.0	29.3
	Jackson County -----	-	21	6	0.6	5.1	0.5	1.0	4.0	13.8	24.1	37.1	(D)	0.6	11.0
	Jefferson County -----	-	129	56	9.9	128.4	6.9	13.5	75.5	284.4	393.8	679.2	13.2	8.6	171.5
20	Food and kindred products --	-	24	12	1.6	22.9	1.3	2.4	16.0	94.7	232.0	337.4	3.9	1.7	60.5
27	Printing and publishing -----	-	15	5	0.7	10.5	0.5	0.9	7.3	24.5	20.3	44.0	(D)	0.7	11.8
35	Machinery, except electrical --	-	24	12	2.5	36.3	1.7	3.3	20.1	63.0	56.7	114.9	2.4	2.0	35.4
36	Electric and electronic equipment -----	-	5	4	1.3	14.2	1.0	1.8	8.4	24.9	18.3	40.0	2.0	(NA)	(NA)
	Juneau County -----	-	37	14	1.4	12.8	1.2	2.3	9.5	27.8	57.9	85.4	2.8	1.2	15.1
	Kenosha County (Coextensive with Kenosha, Wis., SMSA; see table 6.)														
	Kewaunee County -----	-	41	12	1.2	13.1	1.0	1.9	9.7	25.6	45.4	70.9	0.9	1.9	25.7
	La Crosse County (Coextensive with La Crosse, Wis., SMSA; see table 6.)														
	Lanlade County -----	-	50	16	1.3	11.2	1.1	2.0	8.5	28.4	43.6	72.0	1.3	1.2	15.8
	Lincoln County -----	-	63	22	3.2	35.5	2.5	4.9	25.1	80.1	90.6	170.0	(D)	3.0	46.0
24 243	Lumber and wood products --	-	19	7	1.1	12.2	1.0	1.8	8.7	22.2	34.2	55.8	(D)	1.1	12.9
	Millwork, plywood, and structural members -----	-	8	6	1.0	11.1	0.9	1.6	7.9	20.2	31.6	51.2	(D)	0.9	10.5
2431	Millwork -----	-	8	6	1.0	11.1	0.9	1.6	7.9	20.2	31.6	51.2	(D)	(NA)	(NA)
26	Paper and allied products ---	-	4	4	0.8	11.0	0.6	1.1	8.5	33.5	28.8	62.1	(D)	(NA)	(NA)
	Manitowoc County -----	-	149	70	14.7	167.7	10.3	20.6	108.7	364.6	395.5	766.8	31.7	13.3	194.7
20 202	Food and kindred products --	-	27	14	1.2	14.0	0.8	1.7	7.6	46.0	124.9	169.8	2.5	1.4	25.5
	Dairy products -----	-	13	7	0.5	5.1	0.4	0.7	3.3	13.8	72.7	84.6	0.3	0.5	8.1
33	Primary metal industries -----	-	5	3	0.6	7.3	0.5	1.0	6.5	10.5	11.0	21.4	0.3	0.5	6.6
34	Fabricated metal products ---	-	22	10	3.8	40.4	2.5	5.0	26.0	67.7	76.7	147.0	2.1	4.1	59.7
35	Machinery, except electrical --	-	26	12	3.6	45.9	3.0	6.4	36.3	137.8	104.0	238.0	(D)	2.9	46.4

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	E1	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Marathon County -----	-	212	71	13.2	182.7	9.4	19.7	121.0	384.6	779.3	1 155.8	36.8	11.5	194.3
20	Food and kindred products --	-	47	8	1.3	14.7	1.1	2.2	11.1	55.1	376.0	430.3	2.8	1.4	23.6
202	Dairy products-----	-	30	5	1.1	12.0	0.9	1.9	9.9	46.9	349.7	395.3	2.6	1.1	18.6
2022	Cheese, natural and processed-----	-	23	4	1.0	10.8	0.9	1.8	8.9	41.4	339.9	379.9	(D)	(NA)	(NA)
24	Lumber and wood products --	-	34	14	3.2	40.9	2.5	5.6	30.9	85.8	102.3	186.4	4.3	1.8	28.3
243	Millwork, plywood, and structural members -----	-	8	5	1.1	12.2	0.9	1.9	9.2	18.7	24.9	42.2	(D)	0.7	6.1
26	Paper and allied products ---	-	7	6	3.0	45.5	2.3	4.8	34.6	85.5	145.3	229.9	20.5	2.9	49.3
34	Fabricated metal products ---	E1	22	7	0.7	7.9	0.5	1.0	4.9	13.8	14.3	27.6	1.3	(NA)	(NA)
35	Machinery, except electrical --	-	31	10	2.2	35.7	1.4	3.0	20.7	75.7	93.8	164.9	4.1	1.6	36.9
	Marinette County -----	-	110	33	6.4	79.9	5.0	9.6	57.5	164.4	246.3	408.9	40.0	4.6	90.5
24	Lumber and wood products --	E1	52	7	0.9	7.8	0.8	1.3	6.3	13.9	13.4	26.6	1.7	0.8	9.4
26	Paper and allied products ---	-	6	6	1.9	30.1	1.6	3.1	23.5	68.7	119.4	187.8	(D)	1.5	37.3
35	Machinery, except electrical --	-	10	4	1.0	11.3	0.8	1.6	7.7	27.2	29.0	55.8	1.2	0.8	11.4
37	Transportation equipment ---	E1	3	3	0.5	4.7	0.5	0.8	3.6	7.0	9.9	16.8	0.5	(NA)	(NA)
	Milwaukee County -----	-	1 792	735	153.6	2 348.0	103.8	200.7	1 463.6	4 954.1	4 797.6	9 660.7	295.2	159.2	2 939.8
20	Food and kindred products --	-	114	64	15.0	253.2	9.6	19.7	163.2	626.7	1 150.6	1 779.2	77.7	15.3	397.4
2011	Meat packing plants -----	E2	11	6	1.7	27.7	1.4	2.7	22.0	50.9	318.1	367.2	(D)	(NA)	(NA)
2013	Sausages and other prepared meats -----	E1	15	6	0.5	7.0	0.3	0.6	3.9	11.4	21.6	33.1	(D)	(NA)	(NA)
2051	Bread, cake, and related products -----	-	17	10	2.3	21.9	1.2	2.4	12.5	52.5	32.9	85.4	1.0	(NA)	(NA)
208	Beverages-----	-	25	13	8.0	165.8	5.1	10.8	107.7	404.9	562.2	973.1	68.1	(NA)	(NA)
209	Miscellaneous foods and kindred products-----	-	17	11	0.6	6.8	0.4	0.8	4.4	21.2	29.0	49.4	(D)	0.7	16.7
23	Apparel and other textile products -----	E1	43	23	1.8	16.4	1.4	2.7	10.0	30.7	29.9	60.7	(D)	(NA)	(NA)
264	Miscellaneous converted paper products -----	-	19	9	0.5	6.6	0.4	0.7	3.6	16.0	17.6	33.7	0.5	0.6	9.4
265	Paperboard containers and boxes -----	-	21	17	2.1	27.2	1.6	3.0	18.2	53.2	70.1	122.9	3.6	2.5	38.7
2651	Folding paperboard boxes-----	-	6	5	0.5	6.4	0.4	0.8	4.5	15.0	13.4	28.2	(D)	(NA)	(NA)
27	Printing and publishing -----	-	278	61	8.8	112.7	4.7	9.0	62.8	218.5	134.6	351.4	9.9	9.9	157.5
275	Commercial printing -----	-	164	27	3.6	52.4	2.7	5.2	36.0	94.6	76.2	170.0	7.0	4.7	77.4
2782	Blankbooks and looseleaf binders -----	-	5	4	0.5	6.0	0.3	0.6	3.2	7.3	5.4	12.6	0.4	(NA)	(NA)
28	Chemicals and allied products -----	-	85	35	2.9	40.8	1.6	3.3	18.4	107.5	139.7	246.3	7.4	2.9	74.2
2851	Paints and allied products-----	-	11	4	0.6	10.6	0.3	0.6	4.2	22.3	47.7	69.3	(D)	(NA)	(NA)
289	Miscellaneous chemical products-----	-	37	15	1.1	15.6	0.6	1.2	6.8	36.0	50.0	87.0	1.1	0.8	21.3
2899	Chemical preparations, n.e.c.-----	-	20	8	0.5	7.3	0.2	0.4	2.4	18.4	21.0	39.5	0.6	(NA)	(NA)
3079	Miscellaneous plastics products-----	E1	46	24	1.9	20.9	1.6	3.0	14.7	41.0	43.0	83.4	3.8	(NA)	(NA)
31	Leather and leather products -----	-	34	20	2.5	30.2	2.1	4.0	21.5	63.7	106.9	171.0	(D)	4.1	57.8
32	Stone, clay, and glass products -----	E1	50	15	0.9	12.0	0.7	1.3	7.8	29.2	33.3	62.9	1.9	0.9	18.5
329	Miscellaneous nonmetallic mineral products-----	E1	16	3	0.5	5.7	0.4	0.7	3.7	10.8	13.6	24.5	(D)	(NA)	(NA)
3321	Gray iron foundries -----	-	12	10	1.4	19.3	1.1	2.1	15.0	33.4	28.3	62.5	3.1	(NA)	(NA)
3322	Malleable iron foundries -----	-	4	4	0.9	12.1	0.7	1.4	7.9	18.7	8.1	26.9	1.7	(NA)	(NA)
3325	Steel foundries, n.e.c. ---	-	8	8	2.7	39.6	2.2	4.4	31.0	77.6	33.1	108.9	5.6	(NA)	(NA)
34	Fabricated metal products ---	-	224	102	21.1	324.7	16.6	31.7	238.8	666.3	710.2	1 355.3	32.7	21.5	398.5
3411	Metal cans -----	-	5	4	2.6	52.3	2.3	4.9	43.8	141.0	232.3	366.0	3.4	(NA)	(NA)
342	Cutlery, hand tools, and hardware -----	-	17	12	3.4	44.0	2.7	5.0	33.0	110.1	56.2	164.9	5.2	2.8	64.8
344	Fabricated structural metal products -----	-	66	32	4.2	63.1	2.8	5.3	37.7	124.6	152.1	264.6	7.0	4.2	75.5
3441	Fabricated structural metal -----	-	10	5	0.7	11.9	0.4	0.8	4.9	26.5	20.4	39.8	0.8	(NA)	(NA)
3443	Fabricated plate work (boiler shops) -----	E1	26	15	1.8	26.7	1.4	2.6	18.5	55.0	47.3	97.7	2.8	(NA)	(NA)
3444	Sheet metal work -----	-	16	8	1.2	18.8	0.8	1.6	12.1	34.4	59.6	92.8	(D)	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	38	13	2.3	29.9	2.0	3.6	23.3	73.9	38.7	109.9	2.0	3.5	47.1

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry		1977										1972		
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
E ¹															
	Milwaukee County—Con.														
35	Machinery, except electrical --	-	391	149	40.9	648.3	29.5	56.3	440.7	1 489.4	1 123.1	2 567.2	76.2	36.7	764.1
351	Engines and turbines -----	-	9	9	13.5	221.5	11.2	21.2	177.7	420.9	407.5	808.0	19.1	9.7	221.6
353	Construction and related machinery -----	-	39	27	10.5	166.0	7.1	13.4	108.0	451.6	324.9	768.8	27.2	10.6	193.6
354	Metalworking machinery -----	-	100	25	3.7	65.1	2.5	5.2	38.7	115.8	45.0	152.9	3.7	4.2	65.7
3544	Special dies, tools, jigs, and fixtures -----	-	73	16	1.8	30.3	1.4	2.9	21.0	43.9	17.0	50.9	(D)	(NA)	(NA)
355	Special industry machinery --	-	33	15	1.9	28.6	1.1	2.0	14.3	62.4	51.7	112.8	3.4	2.3	53.1
3559	Special industry machinery, n.e.c. -----	-	15	6	0.9	14.1	0.4	0.8	5.6	35.8	31.5	67.9	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E1	124	40	2.3	30.1	1.8	3.4	20.0	55.4	29.1	83.2	3.4	1.9	31.6
362	Electrical industrial apparatus -----	-	25	16	12.1	183.7	7.8	16.0	107.1	335.6	153.4	476.4	15.5	14.0	214.2
3622	Industrial controls -----	-	13	8	9.6	146.7	6.1	13.1	84.3	268.7	120.6	379.7	(D)	(NA)	(NA)
364	Electric lighting and wiring equipment -----	-	11	6	0.8	9.0	0.6	1.1	4.9	13.4	15.0	28.3	1.2	(NA)	(NA)
37	Transportation equipment ---	-	35	20	10.4	177.8	8.2	14.6	132.1	561.5	522.2	1 088.2	(D)	13.1	253.3
371	Motor vehicles and equipment -----	-	21	14	10.0	172.2	7.9	14.0	128.5	546.4	510.7	1 061.6	(D)	10.1	190.0
3991	Brooms and brushes -----	-	7	5	0.7	7.7	0.5	1.1	3.9	18.0	22.3	40.0	(D)	(NA)	(NA)
3993	Signs and advertising displays -----	-	29	10	1.0	11.6	0.7	1.3	6.3	22.3	18.7	41.3	(D)	(NA)	(NA)
-	Administrative and auxiliary --	-	69	43	7.6	149.6	-	-	-	-	-	-	-	(NA)	(NA)
	Monroe County -----	-	46	16	2.1	16.7	1.7	3.1	12.2	52.3	71.8	118.5	2.1	1.3	19.3
	Oconto County -----	-	70	26	2.2	22.8	1.8	3.7	16.4	46.8	92.4	141.4	6.0	2.5	41.8
20	Food and kindred products --	-	16	6	0.5	4.3	0.4	0.9	3.4	8.3	36.7	47.7	0.7	0.5	11.5
	Oneida County -----	-	51	14	2.1	28.8	1.6	3.2	20.8	49.1	90.7	137.9	4.8	1.6	31.5
	Outagamie County -----	-	179	77	16.7	223.2	12.3	25.3	147.6	576.7	901.8	1 456.1	50.6	14.2	261.4
20	Food and kindred products --	-	31	18	2.8	30.2	2.0	4.0	19.2	93.0	305.5	397.9	10.0	1.6	33.8
202	Dairy products -----	-	13	7	0.8	9.2	0.6	1.4	7.3	38.1	165.9	204.1	3.3	0.5	16.5
2033	Canned fruits and vegetables -----	E1	6	6	0.6	3.2	0.4	0.7	2.6	7.7	12.8	20.4	1.0	(NA)	(NA)
26	Paper and allied products ---	-	17	13	5.6	86.0	4.3	9.2	61.5	229.8	340.9	563.1	27.0	5.4	120.5
264	Miscellaneous converted paper products -----	-	11	7	2.6	39.1	1.8	3.9	24.1	107.1	165.0	270.0	4.8	2.4	49.1
27	Printing and publishing -----	-	26	4	0.5	6.3	0.3	0.5	3.0	12.0	7.7	19.7	(D)	(NA)	(NA)
	Ozaukee County -----	-	172	74	9.6	122.8	7.1	13.8	80.9	236.5	283.0	520.1	14.1	8.2	153.6
28	Chemicals and allied products -----	-	10	5	0.5	7.1	0.2	0.3	1.9	15.2	22.3	37.2	(D)	(NA)	(NA)
33	Primary metal industries -----	-	11	9	0.8	10.7	0.7	1.4	8.7	20.0	23.6	44.6	1.4	0.6	9.6
34	Fabricated metal products ---	-	21	13	1.0	13.3	0.6	1.2	7.7	22.0	21.7	42.7	1.2	0.7	11.1
35	Machinery, except electrical --	-	36	14	3.3	48.4	2.4	4.7	33.6	104.5	127.9	232.5	5.5	3.4	78.4
36	Electric and electronic equipment -----	-	16	6	1.8	19.0	1.4	2.7	13.3	30.1	27.3	56.0	1.7	1.1	13.4
	Pierce County -----	-	36	9	1.0	11.4	0.7	1.6	7.2	30.3	51.7	81.5	3.6	0.8	27.5
	Polk County -----	-	68	22	1.8	17.7	1.5	2.9	12.6	46.5	63.3	106.5	9.2	1.4	22.6
	Portage County -----	-	66	28	3.5	43.2	2.7	5.5	30.1	86.7	121.4	206.8	11.3	2.5	40.1
20	Food and kindred products --	-	14	7	0.9	10.2	0.7	1.2	6.4	19.8	37.3	56.1	(D)	(NA)	(NA)
25	Furniture and fixtures -----	-	7	4	0.7	7.9	0.5	1.1	5.3	15.1	14.0	29.7	(D)	(NA)	(NA)
	Price County -----	-	47	12	1.1	11.4	0.9	1.6	7.8	29.6	32.1	65.1	3.0	1.5	25.7
	Racine County (Coextensive with Racine, Wis., SMSA; see table 6.)														
	Richland County -----	-	31	9	0.8	7.5	0.6	1.6	5.6	30.7	65.7	95.0	0.8	0.7	12.8
	Rock County -----	-	186	62	20.3	321.2	15.1	30.5	223.3	942.0	2 013.3	2 951.8	27.1	18.0	427.2
20	Food and kindred products --	-	16	9	1.2	15.3	1.0	1.8	11.0	58.1	110.3	166.7	2.2	0.7	14.4
34	Fabricated metal products ---	-	18	6	0.7	9.2	0.5	1.1	8.2	24.6	31.6	54.9	1.1	0.6	12.9
35	Machinery, except electrical --	-	38	10	4.6	68.6	2.6	4.9	32.0	139.7	113.1	252.0	4.7	4.5	64.6
	Rusk County -----	-	40	14	1.3	13.4	1.2	2.4	10.9	34.3	49.0	82.5	2.1	0.9	10.8
	St. Croix County -----	-	63	23	2.1	24.9	1.5	3.1	15.4	67.6	76.8	142.4	3.1	1.8	38.1

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Sauk County -----	-	81	29	3.5	34.3	2.5	5.3	20.7	93.0	168.4	259.0	5.8	4.9	76.9
30	Rubber and miscellaneous plastics products -----	-	6	4	0.6	6.5	0.6	1.3	4.1	21.6	12.2	34.2	(D)	0.7	12.7
3079	Miscellaneous plastics products -----	-	6	4	0.8	6.5	0.6	1.3	4.1	21.6	12.2	34.2	(D)	(NA)	(NA)
36	Electric and electronic equipment -----	-	3	3	0.7	6.2	0.6	1.1	4.3	16.4	18.4	34.8	(D)	0.6	9.7
	Shawano County -----	-	76	22	1.6	16.7	1.2	2.5	11.1	45.9	122.8	168.0	2.8	1.4	18.9
24	Lumber and wood products --	-	22	8	0.7	7.5	0.6	1.3	5.4	15.3	18.0	33.4	1.1	0.7	7.9
	Sheboygan County -----	-	222	109	17.4	222.5	12.5	26.1	149.2	489.6	644.2	1 121.0	25.0	16.7	286.5
20	Food and kindred products --	-	44	16	1.8	20.2	1.4	2.9	14.7	74.5	252.2	330.5	4.9	1.9	38.6
202	Dairy products -----	-	17	5	0.9	11.5	0.7	1.5	9.0	57.7	198.5	258.8	2.6	1.0	21.9
24	Lumber and wood products --	-	17	6	0.8	10.1	0.7	1.3	6.6	20.9	16.0	37.1	(D)	0.8	10.3
25	Furniture and fixtures -----	-	9	7	1.2	11.1	0.9	1.6	7.7	23.6	11.4	34.7	0.9	1.0	13.0
30	Rubber and miscellaneous plastics products -----	E1	15	12	0.8	8.7	0.6	1.2	6.0	26.0	31.4	57.7	0.8	0.5	6.9
3079	Miscellaneous plastics products -----	E1	15	12	0.8	8.7	0.6	1.2	6.0	26.0	31.4	57.7	0.8	(NA)	(NA)
32	Stone, clay, and glass products -----	-	9	4	1.0	14.9	0.8	1.9	12.6	34.9	19.5	55.9	(D)	(NA)	(NA)
33	Primary metal industries -----	-	11	8	1.0	11.9	0.9	1.8	9.4	25.2	28.9	52.7	1.5	0.8	11.8
34	Fabricated metal products ---	-	15	6	2.8	46.8	2.3	5.6	37.8	96.0	91.1	194.6	2.8	3.5	70.3
35	Machinery, except electrical --	-	38	19	2.9	38.5	2.2	4.5	27.9	82.8	84.6	163.8	3.9	3.1	80.6
356	General industrial machinery -----	-	9	6	1.0	13.7	0.7	1.4	8.4	21.4	17.0	37.7	0.7	0.9	16.3
-	Administrative and auxiliary --	-	8	6	1.8	22.8	-	-	-	-	-	-	-	(NA)	(NA)
	Taylor County -----	-	36	13	1.6	18.6	1.4	2.9	13.3	55.9	42.0	96.4	3.6	1.2	15.0
	Trempealeau County -----	-	57	14	2.1	20.4	1.8	3.6	16.4	45.2	181.4	223.2	3.4	1.5	23.4
20	Food and kindred products --	-	11	4	0.9	10.3	0.8	1.7	8.7	19.2	152.9	173.3	1.4	0.6	13.1
	Vernon County -----	-	47	10	0.6	5.3	0.5	0.8	3.9	19.6	29.0	48.0	0.8	0.5	10.2
	Vilas County -----	-	35	7	0.6	4.6	0.5	0.9	3.3	10.6	11.1	21.7	0.6	0.6	8.2
	Walworth County -----	-	165	52	6.3	69.1	5.0	9.7	48.9	165.4	208.1	371.1	13.7	5.5	89.4
20	Food and kindred products --	-	18	6	0.8	8.8	0.6	1.1	5.8	22.3	71.9	94.4	5.4	0.5	9.7
33	Primary metal industries -----	-	8	4	0.6	9.3	0.5	0.9	6.2	22.6	27.4	51.1	0.4	0.6	10.8
35	Machinery, except electrical --	-	22	6	1.0	13.6	0.7	1.5	9.1	43.8	45.7	85.8	3.2	(NA)	(NA)
36	Instruments and related products -----	-	6	4	0.9	7.4	0.8	1.5	5.0	11.8	10.1	21.9	(D)	(NA)	(NA)
39	Miscellaneous manufacturing industries -----	-	14	8	0.5	4.6	0.5	0.8	3.6	9.1	8.3	17.6	0.1	0.6	7.6
	Washburn County -----	-	33	5	0.5	4.6	0.4	0.8	3.3	8.1	20.3	28.0	0.6	0.3	3.1
	Washington County -----	-	167	56	10.9	131.9	7.5	14.2	77.0	303.5	342.1	636.1	11.8	19.0	176.1
20	Food and kindred products --	-	13	7	0.5	6.1	0.3	0.6	3.7	18.8	69.0	87.5	1.9	(NA)	(NA)
34	Fabricated metal products ---	-	24	8	1.2	15.7	0.9	1.6	9.3	36.5	36.3	74.6	1.1	1.5	20.1
35	Machinery, except electrical --	-	46	10	2.6	33.3	1.8	3.4	20.5	66.2	63.4	129.1	2.4	2.8	80.5
	Waukesha County -----	-	728	276	30.0	439.8	20.2	40.0	261.0	912.8	950.0	1 735.4	68.0	22.7	430.3
20	Food and kindred products --	-	28	16	1.5	17.4	1.1	2.1	12.0	62.7	134.4	195.9	2.9	1.3	27.1
202	Dairy products -----	-	10	4	0.5	7.3	0.3	0.8	5.1	34.4	84.7	118.4	(D)	(NA)	(NA)
27	Printing and publishing -----	-	84	31	2.9	45.6	2.1	4.2	33.5	87.0	70.5	156.1	6.4	2.0	38.6
275	Commercial printing -----	-	53	15	1.7	29.0	1.3	2.6	22.2	54.2	44.6	97.6	4.6	(NA)	(NA)
30	Rubber and miscellaneous plastics products -----	E1	39	23	2.0	23.7	1.5	3.1	15.8	51.3	43.6	94.3	3.8	1.1	13.7
3069	Fabricated rubber products, n.e.c. -----	-	4	4	0.6	8.6	0.5	0.9	5.8	23.4	8.4	31.5	(D)	(NA)	(NA)
3079	Miscellaneous plastics products -----	E2	35	19	1.4	15.1	1.1	2.2	10.0	27.9	35.2	82.8	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	-	41	16	0.8	11.3	0.6	1.2	7.9	27.3	25.6	52.2	1.9	(NA)	(NA)
327	Concrete, gypsum, and plaster products -----	-	26	12	0.5	8.3	0.4	0.9	6.2	18.0	17.5	35.0	1.6	0.5	10.1

See footnotes at end of table.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972—Con.

[Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	County and industry	1977												1972	
		E ¹	All estab- lishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Waukesha County—Con.														
33	Primary metal industries -----	-	26	15	2.8	44.3	2.2	4.4	32.4	83.9	51.4	133.3	7.8	2.6	45.6
34	Fabricated metal products ---	-	102	39	3.5	48.7	2.6	5.3	31.7	102.4	112.4	212.8	4.9	3.1	57.5
344	Fabricated structural metal products -----	E1	29	9	0.5	6.3	0.4	0.7	3.8	13.9	25.7	39.6	0.4	1.1	18.3
346	Metal forgings and stampings -----	-	16	9	0.9	12.0	0.6	1.2	8.0	21.9	16.4	38.9	1.3	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	21	7	0.6	8.0	0.4	0.9	5.2	17.1	14.6	31.5	1.3	(NA)	(NA)
35	Machinery, except electrical --	-	227	72	7.8	118.8	5.4	10.8	74.4	257.7	200.4	452.9	11.7	6.4	132.4
353	Construction and related machinery -----	-	15	8	0.5	7.6	0.3	0.6	4.1	13.7	13.9	27.1	0.3	0.5	9.4
354	Metalworking machinery ---	-	76	20	2.3	35.3	1.7	3.4	24.0	69.5	52.0	119.7	3.8	1.6	36.4
3544	Special dies, tools, jigs, and fixtures -----	E1	52	10	0.8	13.4	0.6	1.4	10.2	20.9	7.9	28.1	2.2	(NA)	(NA)
356	General industrial machinery -----	-	29	12	1.2	19.2	0.8	1.7	11.7	43.0	30.6	72.1	2.4	1.4	28.2
359	Miscellaneous machinery, except electrical -----	E1	76	19	0.8	12.6	0.7	1.5	8.7	21.8	10.7	32.3	1.7	(NA)	(NA)
3599	Machinery, except electrical, n.e.c. -----	E1	76	19	0.9	12.6	0.7	1.5	8.7	21.8	10.7	32.3	1.7	(NA)	(NA)
36	Electric and electronic equipment -----	-	42	17	4.9	76.1	2.6	4.9	32.0	173.9	129.9	290.9	24.5	2.7	64.8
362	Electrical industrial apparatus -----	-	10	5	0.9	10.9	0.4	0.8	4.1	29.2	26.9	54.8	(D)	0.5	12.6
38	Instruments and related products -----	-	15	7	0.9	8.8	0.6	1.1	5.1	16.8	15.6	31.1	0.5	0.5	7.8
-	Administrative and auxiliary --	-	13	10	1.0	18.9	-	-	-	-	-	-	-	(NA)	(NA)
	Waukegan County -----	-	93	34	3.8	37.8	2.8	5.7	26.1	81.2	130.0	207.8	5.9	3.4	51.5
20	Food and kindred products --	E1	25	5	0.8	3.7	0.4	0.9	2.2	4.7	43.6	47.1	1.2	0.5	9.9
203	Preserved fruits and vegetables -----	E1	4	2	0.5	0.7	0.2	0.4	0.4	1.5	1.6	3.1	(D)	(NA)	(NA)
24	Lumber and wood products --	-	13	5	0.6	6.4	0.5	1.2	4.9	8.9	16.5	25.1	0.7	(NA)	(NA)
37	Transportation equipment ---	-	11	6	0.8	8.6	0.5	0.9	4.7	18.1	19.4	34.8	0.4	1.1	15.9
	Winnebago County -----	-	262	136	21.3	295.0	14.6	28.7	179.0	618.6	752.4	1 356.9	35.3	19.7	355.3
20	Food and kindred products --	-	24	8	0.5	6.3	0.3	0.6	3.0	19.6	36.8	56.1	2.5	0.8	7.5
24	Lumber and wood products --	-	16	8	1.4	15.3	1.2	2.7	12.1	30.9	62.7	92.3	(D)	(NA)	(NA)
243	Millwork, plywood, and structural members -----	-	9	6	1.3	14.4	1.1	2.5	11.4	29.8	61.5	90.0	(D)	(NA)	(NA)
26	Paper and allied products ---	-	37	31	6.6	98.5	5.2	10.5	73.5	268.0	365.2	628.3	13.8	5.9	145.3
264	Miscellaneous converted paper products -----	-	15	12	3.0	44.2	2.5	4.9	33.8	146.3	184.5	327.2	(D)	2.5	75.7
2647	Sanitary paper products --	-	3	3	1.4	20.3	1.1	2.2	15.8	80.4	90.2	168.6	(D)	(NA)	(NA)
265	Paperboard containers and boxes -----	-	12	9	1.3	19.4	1.0	2.0	13.5	39.1	57.2	95.8	(D)	1.3	26.8
34	Fabricated metal products ---	E1	24	9	0.5	6.4	0.4	0.8	3.9	13.0	11.4	24.3	0.5	0.5	7.6
35	Machinery, except electrical --	-	31	20	2.4	36.1	1.8	3.5	25.5	90.3	95.7	184.4	3.4	2.4	56.9
-	Administrative and auxiliary --	-	11	10	2.0	36.8	-	-	-	-	-	-	-	(NA)	(NA)
	Wood County -----	-	122	51	11.4	175.3	8.1	16.0	108.6	343.4	557.1	900.2	42.7	10.2	178.6
20	Food and kindred products --	-	27	11	0.6	6.7	0.5	1.0	4.9	20.3	144.3	164.1	2.3	0.5	10.3
202	Dairy products -----	-	20	9	0.6	8.0	0.5	0.9	4.4	18.9	139.7	158.0	2.2	(NA)	(NA)
24	Lumber and wood products --	-	19	10	1.8	20.7	1.5	3.0	16.2	46.8	60.7	106.7	1.7	1.5	23.3

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E0—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	E ¹	1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Algoma -----	-	10	5	0.5	4.8	0.3	0.6	3.4	9.4	14.2	23.9	0.4	1.0	12.4
	Antigo -----	-	27	12	0.8	8.0	0.7	1.3	5.2	19.4	36.3	55.8	1.0	0.9	10.2
	Appleton -----	-	92	32	8.0	108.3	5.6	12.0	88.8	280.8	389.3	642.8	11.3	7.3	148.1
26	Paper and allied products ---	-	11	7	2.5	37.5	1.7	3.7	23.2	110.8	133.7	243.9	5.7	2.2	48.4
35	Machinery, except electrical --	-	14	3	0.7	10.3	0.4	1.0	6.1	28.0	16.7	42.2	(D)	0.9	18.1
	Ashland -----	-	23	12	1.0	9.6	0.8	1.5	7.8	25.5	26.2	51.1	1.5	0.9	14.6
	Baraboo -----	-	23	13	1.7	14.8	1.4	2.7	10.2	43.7	35.2	77.6	2.3	3.7	52.8
	Beaver Dam -----	-	32	13	2.5	25.8	2.1	4.1	19.7	80.7	70.3	150.1	2.0	2.3	34.9
	Beloit -----	-	55	19	6.9	93.7	4.3	8.2	49.6	230.8	209.5	440.4	7.2	6.9	92.7
20	Food and kindred products --	-	5	4	0.9	11.3	0.7	1.3	8.2	48.2	79.8	126.3	1.4	(NA)	(NA)
	Berlin -----	-	26	11	1.7	16.0	1.4	2.7	11.7	35.5	22.7	58.0	(D)	1.3	16.3
	Boscobel -----	-	9	4	0.8	7.0	0.7	1.4	5.9	8.3	31.3	39.8	0.6	(NA)	(NA)
	Brookfield -----	-	70	30	3.2	49.9	1.9	4.0	26.6	78.9	74.4	152.2	4.3	2.2	51.7
35	Machinery, except electrical --	-	17	7	1.0	15.1	0.8	1.7	11.3	35.2	31.4	66.9	1.4	(NA)	(NA)
-	Administrative and auxiliary --	-	6	4	0.7	12.7	-	-	-	-	-	-	-	(NA)	(NA)
	Brown Deer -----	-	21	10	1.8	25.7	1.2	2.2	15.2	51.8	31.9	82.1	5.5	1.4	29.9
	Burlington -----	-	32	14	2.1	23.6	1.7	3.4	17.2	115.5	89.3	203.4	3.6	(D)	(D)
	Cedarburg -----	-	39	16	2.6	33.3	2.0	3.9	24.5	60.2	71.7	130.5	4.9	2.1	35.2
	Chilton -----	-	16	7	0.7	8.4	0.6	1.3	6.6	36.0	40.9	77.0	(D)	0.8	16.3
	Chippewa Falls -----	-	47	17	2.4	25.1	1.5	3.4	16.4	68.2	124.9	189.9	4.3	1.5	25.9
31	Leather and leather products -----	-	3	3	1.0	8.5	0.4	1.3	5.2	20.0	25.9	45.6	(D)	0.6	9.8
314	Footwear, except rubber -----	-	3	3	1.0	8.5	0.4	1.3	5.2	20.0	25.9	45.6	(D)	(NA)	(NA)
3143	Men's footwear, except athletic -----	-	3	3	1.0	8.5	0.4	1.3	5.2	20.0	25.9	45.6	(D)	(NA)	(NA)
	Clintonville -----	-	18	8	0.8	9.2	0.5	1.0	4.9	20.2	20.7	38.2	0.6	1.2	16.3
	Columbus -----	-	16	8	0.5	5.2	0.4	0.8	3.8	10.4	9.6	19.4	0.6	0.5	6.8
	Cudahy -----	-	39	22	7.8	128.0	5.0	11.1	95.0	191.1	352.4	541.9	13.1	7.0	135.5
	Delavan -----	-	22	8	2.0	22.4	1.5	3.0	15.2	57.4	58.9	112.8	7.8	2.0	34.6
	De Pere -----	-	43	13	1.5	22.7	1.1	2.4	16.5	49.4	90.4	139.2	4.2	1.2	32.5
	Eau Claire -----	-	63	25	5.0	75.9	3.9	7.8	58.3	173.4	191.4	357.5	10.9	8.0	213.7
20	Food and kindred products --	-	10	7	0.6	8.9	0.3	0.7	5.6	22.0	44.3	66.2	0.8	(NA)	(NA)
	Elkhorn -----	-	24	7	0.9	9.6	0.7	1.4	7.6	26.3	21.4	47.3	0.8	1.0	19.2
	Fond du Lac -----	-	49	26	5.0	68.7	3.6	7.1	45.2	146.2	226.8	371.3	8.0	5.3	94.9
20	Food and kindred products --	-	5	3	0.5	7.2	0.4	0.9	5.5	21.3	108.2	128.5	(D)	0.5	19.0
	Fort Atkinson -----	-	24	12	2.0	26.6	1.3	2.5	16.1	52.9	72.6	122.6	2.3	2.4	37.3
	Germantown -----	-	34	10	0.6	8.3	0.4	0.8	4.5	15.5	22.1	37.3	1.5	(NA)	(NA)
	Glendale -----	-	53	27	5.7	89.0	3.7	7.7	52.9	160.3	185.3	335.4	8.7	4.1	80.3
	Grafton -----	-	43	21	3.2	39.1	2.6	5.1	28.4	79.3	84.9	163.2	3.8	2.8	50.7
35	Machinery, except electrical --	-	12	4	1.2	17.7	0.9	1.8	13.0	37.2	44.1	81.2	1.5	(NA)	(NA)
	Green Bay -----	-	161	69	14.3	208.2	10.5	20.9	144.4	678.5	1 204.8	1 880.7	129.5	13.7	304.1
20	Food and kindred products --	-	23	14	2.7	33.7	2.1	4.1	23.9	95.4	420.9	520.4	4.9	3.2	59.9
26	Paper and allied products ---	-	15	14	6.8	115.8	5.2	11.0	87.1	465.9	665.5	1 124.0	(D)	6.2	167.7
2621	Paper mills, except building paper -----	-	3	3	2.5	46.1	1.9	3.9	33.1	157.8	209.7	368.0	(D)	(NA)	(NA)
35	Machinery, except electrical --	-	22	8	1.7	23.6	1.2	2.2	15.2	52.2	26.4	80.0	1.7	1.5	31.4
	Greendale -----	-	16	10	0.5	6.8	0.4	0.7	4.1	15.3	9.8	24.7	1.0	(NA)	(NA)
	Hartford -----	-	28	11	2.8	31.5	2.0	3.8	20.0	74.8	78.8	150.8	3.8	2.0	43.2
	Hudson -----	-	13	6	0.5	5.4	0.3	0.7	3.2	14.0	23.6	36.7	1.3	(D)	(D)
	Jefferson -----	-	16	8	2.2	27.3	1.3	2.6	13.1	84.8	138.4	233.7	2.2	2.1	85.4

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977												1972	
		E ¹	All establishments		All employees		Production workers			Value added by manu- facture (million dollars)	Cost of mater- ials ² (million dollars)	Value of ship- ments ² (million dollars)	New capital expend- itures (million dollars)	All employ- ees (1,000)	Value added by manu- facture (million dollars)
			Total (no.)	With 20 employ- ees or more (no.)	Num- ber (1,000)	Payroll (million dollars)	Num- ber (1,000)	Hours (mil.)	Wages (million dollars)						
	Kaukauna -----	-	12	8	2.5	37.9	1.9	4.0	27.1	84.4	142.1	224.4	(D)	2.4	49.7
	Kenosha -----	-	105	34	16.0	225.5	12.0	19.2	158.5	372.1	1 010.0	1 389.3	12.5	14.5	347.4
	Kewaunee -----	-	14	5	0.6	6.9	0.5	1.1	5.3	12.7	10.3	22.9	0.2	0.7	9.5
	Kiel -----	-	19	6	0.6	7.2	0.4	0.8	4.7	20.4	42.3	60.5	0.6	0.5	7.8
	La Crosse -----	-	94	27	7.8	97.3	4.8	9.3	53.3	210.1	194.5	406.8	17.6	6.8	107.0
	Ladysmith -----	-	14	7	0.6	6.1	0.5	1.1	4.9	16.1	21.4	37.8	1.4	(NA)	(NA)
	Madison -----	-	210	62	11.3	181.3	7.3	14.3	108.8	333.5	598.1	930.8	16.9	11.6	204.9
20	Food and kindred products --	-	23	14	4.5	80.1	3.4	6.7	61.2	160.3	446.2	607.4	7.3	5.1	100.5
27	Printing and publishing -----	-	68	10	1.4	18.8	0.8	1.6	11.9	43.6	25.9	69.0	4.0	1.2	25.9
36	Electric and electronic equipment -----	-	8	3	0.5	5.2	0.4	0.7	4.0	13.9	24.2	37.8	(D)	0.5	16.1
-	Administrative and auxiliary --	-	8	4	1.4	30.5	-	-	-	-	-	-	-	(NA)	(NA)
	Manitowoc -----	-	84	45	9.6	113.1	5.5	13.3	73.4	244.6	256.5	499.9	27.0	8.5	117.7
20	Food and kindred products --	-	15	9	0.9	10.8	0.5	1.2	5.1	32.1	69.6	102.5	2.3	(NA)	(NA)
33	Primary metal industries -----	-	3	3	0.5	7.0	0.5	0.9	6.2	10.3	10.4	20.6	(D)	(NA)	(NA)
	Marinette -----	-	31	14	3.1	41.0	2.2	4.5	27.9	87.2	139.1	226.1	33.2	2.3	49.0
	Marshfield -----	-	57	24	2.8	34.2	2.3	4.5	24.3	78.4	149.7	227.3	3.8	(D)	(D)
24	Lumber and wood products --	-	11	7	1.5	19.0	1.3	2.6	14.8	43.5	56.0	98.8	(D)	(NA)	(NA)
	Mayville -----	-	20	11	2.0	25.2	1.5	2.9	17.8	59.1	46.7	102.5	2.1	1.6	30.2
	Medford -----	-	19	8	1.3	16.2	1.1	2.4	11.4	50.1	34.6	83.2	3.2	1.0	12.1
	Menasha -----	-	36	20	4.5	72.7	2.6	5.2	37.6	117.3	156.3	269.9	6.3	3.6	66.6
26	Paper and allied products ---	-	10	9	2.5	37.8	1.9	3.9	27.7	87.1	112.1	196.7	4.6	1.8	37.2
264	Miscellaneous converted paper products -----	-	4	3	0.9	13.8	0.7	1.5	10.1	40.3	50.1	88.9	0.9	(NA)	(NA)
	Menomonee Falls -----	-	122	51	4.2	55.3	2.9	5.8	33.4	98.9	95.9	191.9	5.5	3.1	53.4
34	Fabricated metal products ---	-	21	11	1.2	17.2	0.9	1.7	10.9	32.8	30.9	63.8	1.5	1.1	17.9
346	Metal forgings and stampings -----	-	7	4	0.7	9.6	0.5	0.9	6.6	17.4	13.1	29.0	(D)	(NA)	(NA)
35	Machinery, except electrical --	-	37	10	0.9	13.2	0.6	1.2	7.9	25.8	19.6	44.1	1.3	0.5	13.1
	Menomonie -----	-	17	5	0.7	7.8	0.6	1.2	6.0	23.3	42.3	54.6	(D)	(D)	(D)
	Mequon -----	-	26	8	0.8	10.2	0.5	0.9	5.4	22.4	16.9	39.2	1.3	(NA)	(NA)
	Merrill -----	-	36	15	2.3	23.3	1.8	3.5	16.2	45.6	59.3	104.3	1.6	2.3	26.0
24	Lumber and wood products --	-	12	7	1.1	11.9	0.9	1.8	8.5	21.7	33.5	54.6	(D)	(NA)	(NA)
	Middleton -----	-	36	8	1.2	13.5	0.9	1.8	8.5	37.5	26.0	63.2	3.9	0.9	20.8
	Milwaukee -----	-	1 192	485	91.4	1 397.6	60.5	119.1	846.3	2 736.6	2 680.9	5 360.4	182.2	106.3	1 898.2
201	Meat products -----	E4	21	9	1.1	15.8	0.8	1.6	10.7	30.1	152.3	182.2	1.1	(NA)	(NA)
205	Bakery products -----	-	13	7	1.1	13.8	0.5	1.0	6.3	35.7	19.9	55.6	0.6	(NA)	(NA)
208	Beverages -----	-	14	7	7.5	156.3	4.8	10.2	103.2	373.0	498.2	871.3	67.6	(NA)	(NA)
2653	Corrugated and solid fiber boxes -----	-	10	8	1.1	16.1	0.8	1.6	10.8	28.8	46.0	74.7	1.5	(NA)	(NA)
275	Commercial printing -----	-	115	21	2.5	37.3	1.8	3.8	25.5	62.2	59.2	120.8	4.7	(NA)	(NA)
2752	Commercial printing, lithographic -----	-	54	15	1.6	25.6	1.3	2.6	17.9	45.3	34.9	79.3	3.8	(NA)	(NA)
2782	Blankbooks and looseleaf binders -----	-	5	4	0.5	6.0	0.3	0.6	3.2	7.3	5.4	12.6	0.4	(NA)	(NA)
289	Miscellaneous chemical products -----	E1	26	9	0.5	7.7	0.2	0.4	2.4	16.8	23.9	40.5	0.6	(NA)	(NA)
3079	Miscellaneous plastics products -----	E1	27	17	1.3	14.6	1.1	2.1	10.5	27.2	29.7	56.8	3.3	(NA)	(NA)
3111	Leather tanning and finishing -----	-	16	12	2.0	24.6	1.6	3.2	17.4	57.0	87.3	141.8	2.0	(NA)	(NA)
332	Iron and steel foundries ---	-	15	13	2.7	37.9	2.2	4.2	29.0	70.8	32.0	101.2	5.7	(NA)	(NA)
336	Nonferrous foundries -----	-	7	4	0.7	8.3	0.6	1.1	6.0	16.1	10.2	25.6	0.8	(NA)	(NA)
341	Metal cans and shipping containers -----	-	4	3	1.6	29.1	1.3	2.6	23.4	79.8	112.5	190.2	(D)	(NA)	(NA)
342	Cutlery, hand tools, and hardware -----	-	10	6	1.8	22.3	1.4	2.4	14.9	67.4	27.8	94.5	(D)	(NA)	(NA)
344	Fabricated structural metal products -----	-	42	21	2.1	31.7	1.3	2.7	16.4	70.2	67.0	125.8	4.3	(NA)	(NA)
346	Metal forgings and stampings -----	-	21	14	1.3	20.6	1.1	2.2	15.8	40.6	46.3	86.7	4.3	(NA)	(NA)
3471	Plating and polishing -----	E1	29	5	0.5	4.6	0.4	0.7	3.3	7.4	3.3	10.6	0.4	(NA)	(NA)
349	Miscellaneous fabricated metal products -----	-	22	7	1.1	14.6	0.9	1.7	10.5	30.2	17.3	45.7	1.1	(NA)	(NA)
3494	Valves and pipe fittings --	-	6	4	0.9	11.8	0.7	1.4	8.8	25.0	13.8	37.0	0.8	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
	Milwaukee—Con.														
353	Construction and related machinery -----	-	20	14	3.9	64.3	2.7	5.1	39.5	139.1	112.7	246.9	(D)	(NA)	(NA)
354	Metalworking machinery -----	E1	63	18	1.5	27.0	1.2	2.4	18.1	40.4	15.5	55.4	1.0	(NA)	(NA)
355	Special industry machinery -----	-	19	8	0.7	11.0	0.4	0.8	5.6	21.9	21.9	42.2	(D)	(NA)	(NA)
358	Refrigeration and service machinery -----	-	14	6	1.1	17.4	0.6	1.4	9.0	42.0	40.1	83.4	2.8	(NA)	(NA)
359	Miscellaneous machinery, except electrical -----	E1	75	23	1.1	14.1	0.8	1.5	9.6	26.9	12.2	38.3	1.2	(NA)	(NA)
367	Electronic components and accessories -----	-	12	4	0.6	5.9	0.4	0.7	2.7	14.9	7.9	22.6	0.5	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies --	-	12	7	1.3	16.0	0.9	1.8	10.4	44.6	32.8	75.3	1.6	(NA)	(NA)
399	Miscellaneous manufactures -----	-	43	11	1.2	13.6	0.8	1.8	6.8	27.7	29.1	56.5	1.4	(NA)	(NA)
-	Administrative and auxiliary --	-	38	25	3.8	82.9	-	-	-	-	-	-	-	(NA)	(NA)
	Monroe -----	-	32	13	1.5	14.3	1.3	2.4	10.9	41.5	95.9	135.8	4.1	1.5	32.2
	Neenah -----	-	52	34	6.1	91.6	4.3	8.6	59.5	214.2	251.1	462.1	14.3	5.7	120.6
26	Paper and allied products ---	-	13	12	3.0	47.2	2.5	5.0	36.7	146.7	192.5	337.2	5.0	2.7	76.8
27	Printing and publishing -----	-	13	5	0.5	6.8	0.4	0.7	4.9	12.2	6.2	18.2	(D)	(NA)	(NA)
275	Commercial printing -----	-	8	5	0.5	6.4	0.4	0.7	4.6	11.6	5.9	17.4	(D)	(NA)	(NA)
	Nellisville -----	-	18	4	0.6	5.0	0.5	0.8	4.4	11.4	14.2	24.9	0.5	(NA)	(NA)
	New Berlin -----	-	108	50	4.3	85.7	3.0	5.9	41.0	143.1	109.4	247.3	6.6	2.8	68.6
27	Printing and publishing -----	-	13	7	0.9	15.9	0.7	1.4	12.3	30.9	26.5	57.2	1.2	0.5	10.1
35	Machinery, except electrical --	-	36	18	1.5	24.0	1.0	2.0	14.8	46.7	27.9	72.1	2.2	1.0	22.5
354	Metalworking machinery -----	-	10	4	0.5	7.9	0.4	0.7	5.3	13.8	7.7	20.7	1.1	(NA)	(NA)
36	Electric and electronic equipment -----	-	10	6	0.8	11.1	0.5	1.0	5.7	36.1	25.7	59.6	(D)	0.6	24.8
	New Holstein -----	-	13	7	2.2	27.7	1.9	3.4	22.5	54.0	101.2	154.9	1.1	2.3	36.9
	New London -----	-	20	9	2.0	24.4	1.5	2.8	14.6	69.1	150.1	216.6	(D)	1.3	28.8
	New Richmond -----	-	14	6	0.9	12.1	0.6	1.3	7.1	30.4	27.0	56.9	0.7	0.9	26.6
	Oak Creek -----	-	59	29	5.0	82.8	3.6	7.3	56.5	412.9	385.0	800.4	14.5	1.7	34.4
	Oconomowoc -----	-	40	17	1.8	20.5	1.3	2.7	14.5	65.2	99.8	162.4	2.2	1.5	30.5
	Oconto -----	-	19	9	0.9	8.4	0.7	1.7	6.2	16.9	24.1	41.5	0.5	(D)	(D)
	Oshkosh -----	-	117	54	6.0	99.1	5.6	11.1	62.5	215.5	252.9	463.4	7.7	7.5	123.5
35	Machinery, except electrical --	-	17	10	1.9	27.8	1.5	2.9	21.0	68.8	79.6	146.9	2.6	1.8	43.6
	Peshigo -----	-	17	8	0.8	10.9	0.7	1.4	8.6	23.7	27.6	51.0	1.2	(D)	(D)
	Pewaukee -----	-	17	10	0.8	11.5	0.6	1.1	7.3	29.9	16.2	45.3	2.4	0.6	8.3
	Plymouth -----	-	20	6	1.4	17.3	1.1	2.1	12.3	67.6	183.1	255.3	1.1	1.6	30.1
	Portage -----	-	24	8	1.3	11.0	1.2	2.2	8.5	21.6	33.6	51.6	1.9	1.1	23.6
	Port Washington -----	-	21	10	1.7	23.9	1.1	2.0	13.1	45.9	56.4	103.2	2.9	1.9	43.5
	Prairie du Chien -----	-	15	6	0.8	9.2	0.6	1.3	6.8	53.6	44.9	97.8	1.5	(D)	(D)
	Racine -----	-	271	94	17.3	241.6	10.2	19.4	115.0	372.5	294.0	663.2	29.6	17.8	271.7
27	Printing and publishing -----	-	23	5	1.5	19.3	0.8	1.5	8.7	42.1	31.7	73.0	1.1	0.7	13.8
33	Primary metal industries -----	-	15	7	1.9	27.2	1.6	3.1	21.3	50.3	38.0	86.9	8.2	1.7	14.3
354	Metalworking machinery -----	-	34	7	0.7	10.7	0.5	1.0	6.3	22.3	13.5	35.7	1.3	(NA)	(NA)
36	Electric and electronic equipment -----	-	26	13	2.5	25.3	1.8	3.5	14.7	65.8	54.6	120.7	(D)	1.9	36.8
362	Electrical industrial apparatus -----	-	16	7	1.3	10.3	1.0	1.9	6.3	18.0	20.4	38.1	1.3	(NA)	(NA)
3621	Motors and generators --	-	13	7	1.2	10.0	1.0	1.9	6.2	17.3	20.0	37.0	1.3	(NA)	(NA)
	Reedsburg -----	-	17	7	1.2	11.7	0.9	1.9	8.4	34.0	78.7	112.4	2.1	1.1	20.0
	Rhineland -----	-	26	11	1.9	26.5	1.4	2.9	19.4	43.6	85.1	127.1	4.1	1.5	29.8
	Rice Lake -----	-	26	12	1.5	13.9	1.2	2.4	10.0	28.6	39.0	66.9	3.6	1.1	14.7
	Richland Center -----	-	24	7	0.7	8.7	0.6	1.5	5.2	29.2	61.3	89.2	(D)	0.6	11.8
	Ripon -----	-	21	13	1.9	20.1	1.5	2.8	12.6	55.2	73.7	129.7	2.6	2.3	33.0
	Rothschild -----	-	7	6	1.1	16.4	0.7	1.5	10.9	29.8	53.9	82.8	(D)	(D)	(D)
	St. Francis -----	-	21	7	0.5	4.9	0.4	0.8	3.5	10.0	10.3	19.9	(D)	(NA)	(NA)

See footnotes at end of table.

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972—Con.

[Includes cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B]

SIC code	City and industry		1977											1972	
			All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil.)	Wages (million dollars)						
		E ¹													
20	Schofield -----	-	27	10	1.8	30.7	1.1	2.3	16.4	65.3	86.4	149.0	2.7	1.4	30.5
	Shawano -----	-	34	11	0.9	10.3	0.7	1.4	6.4	17.7	30.7	47.8	1.7	0.9	9.5
	Sheboygan -----	-	123	65	7.9	94.0	5.8	11.3	59.1	185.3	279.1	463.9	13.5	5.1	133.3
	Food and kindred products --	-	17	8	0.6	5.8	0.4	0.8	3.4	9.8	52.4	62.3	2.4	0.6	11.8
30	Rubber and miscellaneous plastics products -----	E1	10	8	0.6	6.5	0.4	0.9	4.7	20.3	26.7	47.4	0.5	(NA)	(NA)
3079	Miscellaneous plastics products -----	E1	10	8	0.6	6.5	0.4	0.9	4.7	20.3	26.7	47.4	0.5	(NA)	(NA)
35	Machinery, except electrical --	-	18	7	0.6	7.7	0.4	0.9	4.9	10.1	12.4	22.1	0.6	0.9	15.4
	Sheboygan Falls -----	-	20	8	0.8	10.3	0.6	1.2	7.2	21.0	30.7	50.6	1.8	1.1	20.6
	South Milwaukee -----	-	26	9	4.2	60.9	2.5	4.9	33.8	186.5	124.5	309.4	9.1	4.0	71.7
	Sparta -----	-	18	9	1.4	12.6	1.1	2.1	7.7	21.8	33.9	56.1	1.5	0.8	12.3
25	Stevens Point -----	-	41	19	2.1	24.3	1.6	3.3	16.8	47.9	53.7	101.3	(D)	1.8	25.8
	Furniture and fixtures -----	-	7	4	0.7	7.9	0.5	1.1	5.3	15.1	14.0	29.7	(D)	(NA)	(NA)
	Stoughton -----	-	26	8	0.9	10.0	0.7	1.2	6.6	27.9	39.1	66.8	1.9	0.6	14.6
	Sturgeon Bay -----	-	33	14	3.5	38.8	3.1	5.6	29.6	111.4	93.2	205.3	7.2	1.8	21.4
	Sun Prairie -----	-	15	5	0.7	8.4	0.6	1.2	6.5	22.8	17.8	40.4	(D)	0.6	11.0
	Two Rivers -----	-	25	11	4.1	43.8	3.0	5.8	27.7	90.0	73.1	163.1	3.4	4.0	62.7
	Union Grove -----	-	11	6	0.5	8.2	0.4	0.8	3.8	11.5	8.7	20.3	1.0	(NA)	(NA)
	Watertown -----	-	42	18	3.0	39.0	2.1	4.1	20.9	79.7	108.2	182.5	4.3	2.1	36.2
33	Waukesha -----	-	138	54	10.0	153.8	6.8	13.5	97.1	355.1	297.7	644.3	37.8	8.7	162.2
	Primary metal industries -----	-	13	10	2.6	41.5	2.0	4.0	30.3	80.0	47.8	125.9	7.3	(NA)	(NA)
	Iron and steel foundries ---	-	6	6	2.2	36.6	1.7	3.4	26.6	71.7	39.6	109.5	(D)	(NA)	(NA)
	Fabricated metal products ---	-	14	5	0.9	13.1	0.6	1.4	8.8	25.9	14.7	40.0	1.0	(NA)	(NA)
35	Machinery, except electrical --	-	46	17	3.0	45.8	2.0	3.9	27.5	111.2	95.1	206.9	4.2	2.9	56.6
356	General industrial machinery -----	-	10	4	0.6	9.7	0.4	0.9	6.1	21.3	19.2	40.4	1.3	(NA)	(NA)
24	Waupaca -----	-	14	8	1.2	15.3	1.0	2.3	12.2	37.0	40.8	77.0	(D)	0.9	13.7
	Waupun -----	-	18	4	0.6	8.8	0.5	0.9	6.3	25.2	23.5	48.3	(D)	1.2	23.4
	Wausau -----	-	84	36	5.5	69.2	4.0	8.0	45.4	140.0	192.4	331.2	7.0	5.7	85.9
	Lumber and wood products --	-	12	5	1.1	13.6	1.0	2.1	10.2	22.1	25.6	46.4	0.6	1.1	16.3
34	Fabricated metal products ---	-	11	6	0.6	6.7	0.4	0.8	4.2	12.1	12.6	24.3	1.2	(NA)	(NA)
205	Wauwatosa -----	-	88	35	10.1	150.3	8.5	16.0	116.8	293.6	222.0	513.4	11.3	8.7	193.1
	West Allis -----	-	150	60	14.5	221.1	9.2	16.2	124.4	490.1	411.7	883.5	29.9	13.8	261.6
	Bakery products -----	-	4	3	1.1	5.9	0.7	1.1	4.5	12.6	9.3	21.9	0.4	(NA)	(NA)
	Bread, cake, and related products -----	-	4	3	1.1	5.9	0.7	1.1	4.5	12.6	9.3	21.9	0.4	(NA)	(NA)
332	Iron and steel foundries ---	-	5	5	1.4	21.6	1.1	2.3	16.9	40.0	29.5	69.0	3.0	(NA)	(NA)
351	Engines and turbines -----	-	4	4	2.0	32.0	1.6	2.8	24.1	77.6	60.5	132.2	(D)	(NA)	(NA)
208	West Bend -----	-	47	15	5.4	64.9	3.5	6.8	36.4	149.3	136.8	282.0	3.8	5.6	96.5
	West Milwaukee -----	-	48	29	10.2	155.6	6.6	12.7	97.8	344.8	335.6	689.4	16.6	11.1	214.1
	Beverages -----	-	3	3	0.5	8.0	0.2	0.5	4.0	28.9	60.4	95.4	0.4	(NA)	(NA)
	Whitewater -----	-	18	8	0.8	6.7	0.5	0.8	4.2	14.6	56.7	71.2	2.2	0.7	9.6
	Wisconsin Rapids -----	-	32	13	4.7	74.3	3.4	6.6	47.6	162.8	238.7	399.4	(D)	(D)	(D)

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 to 99 percent; E10—100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

(Major group descriptions are: 20--food and kindred products; 21--tobacco manufacturing; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class	All es- tablish- ments	Establishments in major industry groups																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
WISCONSIN:																							
1 TO 4 EMPLOYEES	8678	1205	5	50	144	903	159	226	1143	228	34	278	111	443	233	835	1512	315	178	119	350	197	
5 TO 9 EMPLOYEES	3133	422	17	52	152	458	53	31	585	77	10	61	22	184	39	248	492	84	64	46	160	25	
10 TO 19 EMPLOYEES	1163	158	2	4	15	125	26	10	167	33	12	23	7	82	15	99	252	34	20	13	42	24	
20 TO 49 EMPLOYEES	1219	166	-	5	13	118	16	20	152	32	6	39	11	74	35	137	248	40	19	10	52	26	
50 TO 99 EMPLOYEES	1370	195	-	4	32	104	32	30	183	52	4	70	19	37	37	171	246	36	20	17	51	45	
100 TO 249 EMPLOYEES	746	130	-	5	11	48	19	33	64	19	-	42	17	19	39	75	119	24	25	9	21	27	
250 TO 499 EMPLOYEES	562	92	-	7	11	35	14	46	34	8	2	32	23	4	34	57	73	41	13	13	16	27	
500 TO 999 EMPLOYEES	258	30	-	1	1	11	6	22	14	6	-	9	7	5	18	28	30	30	7	6	5	8	
1000 TO 2499 EMPLOYEES	146	8	-	1	1	1	2	20	3	-	-	1	5	2	15	14	32	17	3	4	3	12	
2500 EMPLOYEES AND OVER	48	2	-	-	-	1	1	5	1	-	-	1	-	-	-	1	5	1	3	1	-	-	
ADAMS COUNTY																							
1 TO 19 EMPLOYEES	13	2	-	-	-	5	1	-	1	-	-	1	-	1	-	1	-	1	-	-	-	-	
20 TO 99 EMPLOYEES	7	1	-	-	-	2	-	-	1	-	-	1	-	1	-	1	-	1	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ASHLAND COUNTY																							
1 TO 19 EMPLOYEES	49	5	-	-	1	30	-	2	4	-	-	-	-	1	-	2	4	-	-	-	-	-	
20 TO 99 EMPLOYEES	34	4	-	-	-	24	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	12	1	-	-	-	5	-	-	1	-	-	-	-	1	-	1	2	-	-	-	-	-	
250 EMPLOYEES AND OVER	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BARRON COUNTY																							
1 TO 19 EMPLOYEES	76	25	-	-	2	11	1	-	5	-	-	3	-	7	1	7	6	-	5	-	-	3	
20 TO 99 EMPLOYEES	48	14	-	-	1	7	-	-	4	-	-	2	-	5	1	2	5	-	4	-	3	-	
100 TO 249 EMPLOYEES	20	9	-	-	1	2	1	-	1	-	-	1	-	1	-	3	1	-	1	-	-	-	
250 EMPLOYEES AND OVER	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	
BAYFIELD COUNTY																							
1 TO 19 EMPLOYEES	31	3	-	-	-	17	-	-	3	-	-	-	-	3	-	1	3	-	-	-	1	-	
20 TO 99 EMPLOYEES	27	3	-	-	-	15	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BROWN COUNTY																							
1 TO 19 EMPLOYEES	279	49	-	-	6	23	4	21	48	4	-	5	4	17	9	19	42	-	6	8	8	6	
20 TO 99 EMPLOYEES	168	24	-	-	5	13	3	7	41	2	-	2	1	13	3	9	29	-	5	6	7	1	
100 TO 249 EMPLOYEES	70	12	-	-	1	10	-	3	3	2	-	2	1	4	6	8	8	-	-	1	-	5	
250 EMPLOYEES AND OVER	19	8	-	-	-	-	1	8	2	-	-	-	1	-	-	2	3	-	-	1	1	-	
BUFFALO COUNTY																							
1 TO 19 EMPLOYEES	23	5	-	-	-	11	-	-	3	1	-	-	-	-	-	-	1	-	-	1	-	1	
20 TO 99 EMPLOYEES	21	2	-	-	-	11	-	-	3	1	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
BURNETT COUNTY																							
1 TO 19 EMPLOYEES	24	1	-	-	-	7	1	-	-	-	-	1	1	2	2	3	3	3	2	2	-	-	
20 TO 99 EMPLOYEES	15	1	-	-	-	5	1	-	-	-	-	1	1	-	-	2	2	1	-	-	-	-	
100 TO 249 EMPLOYEES	9	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
CALUMET COUNTY																							
1 TO 19 EMPLOYEES	59	21	-	1	-	-	2	-	5	-	-	-	1	4	3	5	12	1	1	-	-	-	
20 TO 99 EMPLOYEES	35	11	-	1	-	-	1	-	5	-	-	-	-	4	1	1	3	1	1	-	-	-	
100 TO 249 EMPLOYEES	16	10	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	
250 EMPLOYEES AND OVER	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	
CHIPPewa COUNTY																							
1 TO 19 EMPLOYEES	103	20	-	-	-	21	2	3	12	-	-	4	4	6	1	10	11	3	1	-	-	-	
20 TO 99 EMPLOYEES	70	12	-	-	-	19	1	1	10	-	-	2	1	5	1	7	4	2	1	-	-	-	
100 TO 249 EMPLOYEES	19	5	-	-	-	2	-	-	2	-	-	-	-	-	-	1	1	-	-	-	-	-	
250 EMPLOYEES AND OVER	3	2	-	-	-	-	1	1	-	-	-	-	2	1	-	-	2	-	-	-	-	-	
CLARK COUNTY																							
1 TO 19 EMPLOYEES	97	42	-	-	-	17	1	1	10	1	-	1	-	1	1	7	10	-	2	2	-	-	
20 TO 99 EMPLOYEES	79	34	-	-	-	14	1	1	10	1	-	1	-	1	-	6	8	-	1	-	-	-	
100 TO 249 EMPLOYEES	15	8	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	3	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
COLUMBIA COUNTY																							
1 TO 19 EMPLOYEES	85	16	-	1	3	2	2	2	19	2	-	2	3	4	3	1	15	3	1	1	2	3	
20 TO 99 EMPLOYEES	52	7	-	1	1	1	1	1	16	2	-	1	1	4	1	1	8	1	1	1	1	1	
100 TO 249 EMPLOYEES	21	6	-	-	-	-	-	-	3	-	-	1	2	-	-	-	2	-	-	-	-	-	
250 EMPLOYEES AND OVER	11	3	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

(Major groups descriptions are: 20---food and kindred products; 21---tobacco manufactures; 22---textile mill products; 23---apparel and other textile products; 24---lumber and wood products; 25---furniture and fixtures; 26---paper and allied products; 27---printing and publishing; 28---chemicals and allied products; 29---petroleum and coal products; 30---rubber and miscellaneous plastics products; 31---leather and leather products; 32---stone, clay, and glass products; 33---primary metal industries; 34---fabricated metal products; 35---machinery, except electrical; 36---electric and electronic equipment; 37---transportation equipment; 38---instruments and related products; 39---miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastic products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electrical and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All establishments	Establishments in major industry groups																			
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
IOWA COUNTY.	33	19	-	-	-	3	-	-	2	-	-	-	-	2	1	1	-	3	1	-	1
1 TO 19 EMPLOYEES.	28	17	-	-	-	2	-	-	2	-	-	-	-	2	1	1	-	3	1	-	1
20 TO 99 EMPLOYEES.	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IRON COUNTY.	16	2	-	-	-	8	-	-	1	-	-	-	1	-	-	-	-	-	3	1	-
1 TO 19 EMPLOYEES.	14	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
20 TO 99 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JACKSON COUNTY.	21	5	-	1	-	6	-	-	2	1	-	1	-	1	-	1	1	1	1	-	-
1 TO 19 EMPLOYEES.	15	3	-	1	-	5	-	-	2	1	-	1	-	1	-	1	1	1	1	-	-
20 TO 99 EMPLOYEES.	3	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JEFFERSON COUNTY.	129	24	-	2	1	5	5	1	15	4	-	7	2	8	4	12	24	5	1	2	4
1 TO 19 EMPLOYEES.	73	12	-	2	3	3	1	1	10	3	-	5	-	7	1	9	12	1	1	1	3
20 TO 99 EMPLOYEES.	33	6	-	-	1	2	3	-	3	1	-	1	1	1	2	2	8	1	-	-	1
100 TO 249 EMPLOYEES.	12	5	-	-	-	-	-	-	1	-	-	1	1	1	-	1	3	-	-	-	2
250 EMPLOYEES AND OVER.	11	1	-	-	-	1	-	-	1	-	-	-	-	-	-	-	1	3	-	1	-
JUNEAU COUNTY.	37	8	-	-	1	10	-	-	1	-	-	1	-	1	1	6	3	2	1	-	1
1 TO 19 EMPLOYEES.	23	6	-	-	-	-	-	-	1	-	-	-	-	-	-	2	2	1	-	-	1
20 TO 99 EMPLOYEES.	9	1	-	1	2	-	-	-	-	-	-	1	-	-	-	4	-	-	-	-	1
100 TO 249 EMPLOYEES.	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KENOSHA COUNTY.	145	12	-	1	3	3	4	1	20	1	-	4	-	9	4	23	35	6	10	1	6
1 TO 19 EMPLOYEES.	101	8	-	1	2	3	1	1	17	-	-	3	-	3	2	18	28	3	7	1	3
20 TO 99 EMPLOYEES.	29	3	-	-	-	-	3	-	1	1	-	1	-	1	-	1	5	1	2	-	2
100 TO 249 EMPLOYEES.	6	1	-	-	-	-	-	-	1	-	-	-	-	-	-	1	1	1	-	-	1
250 EMPLOYEES AND OVER.	9	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-
KENAUKEE COUNTY.	41	15	-	-	-	3	3	-	5	1	-	1	-	2	-	5	4	-	-	-	1
1 TO 19 EMPLOYEES.	29	13	-	-	-	1	2	-	4	1	-	-	-	2	-	3	1	-	-	-	1
20 TO 99 EMPLOYEES.	9	2	-	-	-	1	-	-	1	-	-	1	-	-	-	1	2	-	-	-	1
100 TO 249 EMPLOYEES.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LA CROSSE COUNTY.	129	18	1	-	3	12	-	1	25	2	-	4	-	9	4	12	20	3	4	2	9
1 TO 19 EMPLOYEES.	90	13	1	-	1	9	-	1	19	2	-	2	-	7	2	6	15	2	2	1	7
20 TO 99 EMPLOYEES.	20	2	-	-	2	2	-	-	3	-	-	2	-	2	2	3	3	1	1	1	1
100 TO 249 EMPLOYEES.	11	2	-	-	-	-	-	-	3	-	-	-	-	-	-	2	1	-	-	-	-
250 EMPLOYEES AND OVER.	8	1	-	2	-	-	-	-	3	-	-	2	-	-	-	1	1	-	-	-	-
LAFAYETTE COUNTY.	32	23	-	-	-	-	-	-	3	-	-	-	-	1	-	-	1	-	1	-	2
1 TO 19 EMPLOYEES.	28	21	-	-	-	-	-	-	3	-	-	-	-	-	-	-	1	-	-	-	1
20 TO 99 EMPLOYEES.	4	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	2
LANGELAND COUNTY.	50	6	-	-	-	20	1	-	5	-	-	2	-	3	-	2	4	1	1	-	3
1 TO 19 EMPLOYEES.	34	1	-	-	-	19	-	-	5	-	-	1	-	3	-	-	4	-	-	-	1
20 TO 99 EMPLOYEES.	12	4	-	-	-	3	-	-	-	-	-	-	-	-	-	1	2	-	-	-	1
100 TO 249 EMPLOYEES.	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LINCOLN COUNTY.	63	7	-	-	-	19	-	4	7	1	1	1	1	2	1	8	5	2	2	-	1
1 TO 19 EMPLOYEES.	41	5	-	-	-	12	-	-	6	1	1	1	-	2	1	4	5	2	1	-	1
20 TO 99 EMPLOYEES.	13	2	-	-	-	4	-	-	1	-	-	-	-	-	-	3	-	-	-	-	-
100 TO 249 EMPLOYEES.	6	-	-	-	-	2	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-
250 EMPLOYEES AND OVER.	3	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MANITOWOC COUNTY.	149	27	-	1	1	10	3	2	10	4	-	7	1	14	5	22	26	3	4	1	4
1 TO 19 EMPLOYEES.	79	13	-	-	1	7	1	-	7	2	-	4	-	10	2	12	14	4	3	-	2
20 TO 99 EMPLOYEES.	40	9	-	1	-	2	1	1	3	1	-	3	-	4	1	4	6	2	-	-	1
100 TO 249 EMPLOYEES.	17	4	-	-	-	1	1	1	-	-	-	-	-	1	-	1	3	1	1	-	1
250 EMPLOYEES AND OVER.	13	1	-	-	-	-	-	-	-	-	-	-	-	-	-	5	3	1	-	-	-
MARATHON COUNTY.	212	47	-	-	2	34	1	7	14	7	1	4	2	11	3	22	31	4	7	2	8
1 TO 19 EMPLOYEES.	141	39	-	-	20	20	1	1	12	3	1	3	-	6	2	15	21	2	7	1	5
20 TO 99 EMPLOYEES.	45	6	-	-	9	9	-	-	1	4	-	1	-	1	1	4	4	1	1	1	3
100 TO 249 EMPLOYEES.	13	2	-	-	-	1	-	-	1	-	-	-	-	-	-	3	4	1	-	-	1
250 EMPLOYEES AND OVER.	13	2	-	-	-	4	-	-	1	-	-	-	-	-	-	-	2	1	-	-	-
MARINETTE COUNTY.	110	12	-	-	2	52	2	6	5	-	-	2	2	4	3	5	10	-	3	-	2
1 TO 19 EMPLOYEES.	77	10	-	-	2	45	-	2	4	-	-	1	1	4	2	2	6	-	-	-	1
20 TO 99 EMPLOYEES.	19	2	-	-	6	6	2	1	1	-	-	1	1	-	-	1	1	-	-	-	1
100 TO 249 EMPLOYEES.	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	10	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major group descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																					
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's	
MARQUETTE COUNTY	18	4	-	-	1	4	1	-	1	1	-	-	-	1	-	1	3	-	1	-	-	-	
1 TO 19 EMPLOYEES	12	2	-	-	1	3	1	-	1	1	-	-	-	1	-	1	1	-	1	-	-	-	
20 TO 99 EMPLOYEES	5	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MENOMINEE COUNTY	8	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1 TO 19 EMPLOYEES	7	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MILWAUKEE COUNTY	1792	114	1	15	43	47	29	41	278	85	9	49	34	50	66	224	391	89	35	30	93	69	
1 TO 19 EMPLOYEES	1057	50	1	9	20	38	22	14	217	50	7	24	14	35	24	122	242	43	15	20	64	26	
20 TO 99 EMPLOYEES	491	38	-	3	19	8	6	18	47	27	2	21	13	14	17	64	105	19	14	7	22	25	
100 TO 249 EMPLOYEES	123	15	-	2	2	1	1	8	7	4	-	3	4	1	15	17	16	9	2	1	5	12	
250 EMPLOYEES AND OVER	121	11	-	1	2	-	-	1	5	4	-	1	3	1	10	21	28	18	4	3	2	6	
MONROE COUNTY	45	11	-	-	-	5	2	1	7	-	-	4	-	2	1	3	7	-	-	-	2	-	
1 TO 19 EMPLOYEES	30	9	-	-	-	4	1	-	5	-	-	2	-	2	-	1	5	-	-	-	1	-	
20 TO 99 EMPLOYEES	10	2	-	-	-	1	1	-	2	-	-	2	-	-	-	-	1	-	-	-	1	-	
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	
OCONTO COUNTY	70	16	-	-	2	23	1	3	5	1	-	-	4	2	-	4	4	1	2	-	1	1	
1 TO 19 EMPLOYEES	44	10	-	-	19	3	1	1	5	1	-	-	-	-	-	3	1	1	-	-	1	1	
20 TO 99 EMPLOYEES	18	3	-	2	2	3	1	-	-	-	-	-	4	1	-	1	2	-	-	-	-	-	
100 TO 249 EMPLOYEES	7	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	
ONEIDA COUNTY	51	5	-	-	-	20	-	2	8	-	-	-	1	7	1	1	1	1	1	-	3	-	
1 TO 19 EMPLOYEES	37	4	-	-	-	17	-	-	5	-	-	-	1	7	1	1	-	-	1	-	3	-	
20 TO 99 EMPLOYEES	10	4	-	-	-	2	-	-	2	-	-	-	-	-	-	-	-	1	-	-	-	-	
100 TO 249 EMPLOYEES	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	
OUTAGAMIE COUNTY	179	31	1	4	1	10	3	17	26	8	1	4	-	11	3	10	31	6	2	3	6	1	
1 TO 19 EMPLOYEES	102	15	1	1	1	6	2	4	22	6	2	2	-	8	2	3	21	2	1	2	3	-	
20 TO 99 EMPLOYEES	41	12	-	2	-	4	-	3	5	2	-	1	-	5	-	5	5	1	1	1	2	-	
100 TO 249 EMPLOYEES	15	2	-	-	-	-	-	1	1	-	-	-	-	-	-	-	2	2	1	1	1	-	
250 EMPLOYEES AND OVER	21	-	-	1	-	-	-	8	1	-	-	1	-	-	-	-	3	1	-	-	-	-	
OZAUKEE COUNTY	172	16	-	1	1	11	5	3	15	10	2	7	4	6	11	21	36	16	2	-	5	-	
1 TO 19 EMPLOYEES	98	15	-	-	-	10	2	1	11	5	2	2	-	6	2	8	22	10	1	-	3	-	
20 TO 99 EMPLOYEES	52	2	-	-	1	3	1	1	4	3	-	5	3	6	6	11	10	2	1	-	2	-	
100 TO 249 EMPLOYEES	14	1	-	1	1	-	-	-	-	2	-	-	1	-	-	2	-	1	-	-	-	-	
250 EMPLOYEES AND OVER	8	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	4	3	-	-	-	-	
PEPIN COUNTY	11	5	-	-	-	3	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	
1 TO 19 EMPLOYEES	5	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20 TO 99 EMPLOYEES	6	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
PIERCE COUNTY	36	4	-	-	-	9	-	1	6	2	-	1	-	5	-	1	1	1	1	-	3	-	
1 TO 19 EMPLOYEES	27	2	-	-	-	8	-	-	5	2	-	-	-	4	-	1	2	1	-	-	3	-	
20 TO 99 EMPLOYEES	6	2	-	-	1	1	-	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	
100 TO 249 EMPLOYEES	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
POLK COUNTY	68	11	-	1	4	11	1	-	9	2	-	5	-	5	-	4	8	4	1	-	-	2	
1 TO 19 EMPLOYEES	46	6	-	1	1	11	1	-	6	2	-	3	-	5	-	1	7	3	1	-	-	2	
20 TO 99 EMPLOYEES	18	5	-	3	-	-	-	-	3	-	-	2	-	-	-	2	1	1	-	-	-	-	
100 TO 249 EMPLOYEES	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PORTAGE COUNTY	66	14	-	-	-	10	7	4	9	2	-	1	-	6	-	3	4	-	1	-	5	-	
1 TO 19 EMPLOYEES	38	7	-	-	-	8	3	1	5	2	-	1	-	4	-	1	3	1	-	-	4	-	
20 TO 99 EMPLOYEES	17	4	-	-	-	1	1	1	3	-	-	1	-	2	-	2	1	-	-	-	1	-	
100 TO 249 EMPLOYEES	8	2	-	-	-	1	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
250 EMPLOYEES AND OVER	3	1	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PRICE COUNTY	47	6	-	-	-	24	-	-	4	-	-	1	-	-	-	1	6	-	1	-	4	-	
1 TO 19 EMPLOYEES	35	6	-	-	-	20	-	-	3	-	-	-	-	-	-	1	3	-	-	-	2	-	
20 TO 99 EMPLOYEES	9	-	-	-	-	3	-	-	1	-	-	-	-	-	-	-	2	1	-	-	1	-	
100 TO 249 EMPLOYEES	3	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977—Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
RACINE COUNTY.	405	17	-	1	5	17	6	5	36	6	1	21	2	15	22	67	120	31	1	8	15	9
1 TO 19 EMPLOYEES.	258	10	-	1	2	16	4	1	27	3	1	10	1	12	13	57	86	14	1	3	11	2
20 TO 99 EMPLOYEES.	90	4	-	-	2	1	1	1	5	1	-	17	1	2	4	21	25	9	1	2	3	2
100 TO 249 EMPLOYEES.	35	1	-	-	-	-	-	-	3	-	-	4	-	-	3	3	2	2	-	1	1	1
250 EMPLOYEES AND OVER.	22	2	-	-	1	-	-	-	1	2	-	-	-	1	3	2	4	2	-	-	-	4
RICHLAND COUNTY.	31	12	-	-	1	7	-	-	3	-	-	-	-	-	-	-	2	2	1	-	1	1
1 TO 19 EMPLOYEES.	22	10	-	-	3	4	-	-	2	-	-	-	-	-	-	-	2	-	-	-	-	-
20 TO 99 EMPLOYEES.	7	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROCK COUNTY.	186	16	1	4	1	2	5	5	29	7	2	11	3	9	1	18	38	8	8	3	7	8
1 TO 19 EMPLOYEES.	124	7	1	1	1	1	3	4	25	3	2	5	1	7	-	12	28	5	4	2	6	5
20 TO 99 EMPLOYEES.	152	5	-	-	-	-	2	1	4	4	-	3	-	2	-	3	4	1	1	1	2	2
100 TO 249 EMPLOYEES.	14	3	-	-	-	-	-	-	1	-	-	2	-	-	-	2	3	1	1	-	-	1
250 EMPLOYEES AND OVER.	16	1	-	2	-	-	-	-	-	-	-	1	2	-	1	1	3	1	2	-	-	1
RUSK COUNTY.	40	5	-	1	2	13	2	1	3	-	-	1	-	-	-	-	5	1	1	-	3	-
1 TO 19 EMPLOYEES.	26	3	-	-	10	10	-	-	3	-	-	-	-	-	-	-	2	-	-	-	2	-
20 TO 99 EMPLOYEES.	10	2	-	-	2	1	2	1	-	-	-	1	-	-	-	-	2	-	-	-	1	-
100 TO 249 EMPLOYEES.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ST. CROIX COUNTY.	63	8	-	-	1	5	-	4	13	3	-	1	-	5	-	6	11	6	-	-	-	-
1 TO 19 EMPLOYEES.	40	4	-	-	-	5	-	-	11	2	-	-	-	-	-	4	5	-	-	-	-	-
20 TO 99 EMPLOYEES.	17	2	-	-	-	-	-	-	1	-	-	1	-	-	-	-	2	-	-	-	-	-
100 TO 249 EMPLOYEES.	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
SAUK COUNTY.	81	14	-	-	2	14	3	-	13	2	-	6	-	5	2	2	8	3	-	3	3	1
1 TO 19 EMPLOYEES.	52	10	-	-	12	12	1	-	13	1	-	2	-	2	1	1	5	1	-	2	3	1
20 TO 99 EMPLOYEES.	20	4	-	-	1	-	1	-	-	-	-	2	-	2	-	1	3	1	-	1	1	1
100 TO 249 EMPLOYEES.	5	-	-	-	-	-	2	-	-	-	-	2	-	-	-	-	-	1	-	1	-	-
250 EMPLOYEES AND OVER.	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SAWYER COUNTY.	42	-	-	-	-	25	-	2	3	-	-	-	2	3	-	2	3	1	-	1	-	-
1 TO 19 EMPLOYEES.	38	4	-	-	-	21	-	-	3	-	-	-	-	-	-	-	3	-	-	-	-	-
20 TO 99 EMPLOYEES.	4	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHAWANO COUNTY.	76	23	-	1	2	22	1	1	5	1	-	2	1	2	-	1	4	1	1	-	1	1
1 TO 19 EMPLOYEES.	54	20	-	-	14	14	-	-	4	1	-	1	1	2	-	1	3	1	1	-	1	1
20 TO 99 EMPLOYEES.	18	6	-	-	1	6	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	4	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SHEBOYGAN COUNTY.	222	44	-	3	2	17	9	6	21	2	-	15	5	9	11	15	38	2	2	2	11	8
1 TO 19 EMPLOYEES.	175	28	-	2	11	11	2	1	16	1	-	5	1	5	3	9	19	1	2	1	7	2
20 TO 99 EMPLOYEES.	71	13	-	-	5	5	3	2	4	1	-	10	3	2	4	3	14	1	1	1	4	4
100 TO 249 EMPLOYEES.	20	2	-	-	-	-	2	-	-	-	-	2	-	-	-	2	3	-	-	-	-	-
250 EMPLOYEES AND OVER.	18	1	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TAYLOR COUNTY.	36	8	-	-	-	16	-	-	1	-	-	2	1	2	-	2	4	-	-	-	-	-
1 TO 19 EMPLOYEES.	23	1	-	-	-	10	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
20 TO 99 EMPLOYEES.	8	1	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TREMPEALEAU COUNTY.	57	11	-	-	-	11	2	-	10	-	-	3	1	6	-	3	8	1	-	-	1	-
1 TO 19 EMPLOYEES.	43	7	-	-	-	10	1	-	9	-	-	1	1	6	-	2	6	1	-	-	1	-
20 TO 99 EMPLOYEES.	7	1	-	-	-	1	-	-	1	-	-	1	1	-	-	1	1	-	-	-	1	-
100 TO 249 EMPLOYEES.	5	2	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VERNON COUNTY.	47	23	-	-	3	8	-	-	5	1	-	-	-	2	-	2	-	-	1	-	-	2
1 TO 19 EMPLOYEES.	37	21	-	-	2	6	-	-	4	1	-	-	-	-	-	1	-	-	-	-	-	1
20 TO 99 EMPLOYEES.	9	2	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
100 TO 249 EMPLOYEES.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VILAS COUNTY.	35	2	-	-	-	15	2	-	5	-	-	-	-	3	-	1	1	-	-	5	1	-
1 TO 19 EMPLOYEES.	28	1	-	-	-	13	2	-	1	-	-	-	-	-	-	-	-	-	-	3	1	-
20 TO 99 EMPLOYEES.	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 TO 249 EMPLOYEES.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B)

State, county, and employee size class ¹	All es- tablish- ments	Establishments in major industry groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
MALWORTH COUNTY.	165	16	-	1	5	5	4	1	19	6	-	10	4	10	8	23	22	5	6	6	14	-
1 TO 19 EMPLOYEES.	113	10	-	4	5	1	1	1	16	6	-	6	4	9	4	17	16	2	4	2	6	-
20 TO 99 EMPLOYEES.	36	3	-	1	1	3	-	-	3	-	-	3	-	1	3	5	3	1	1	2	7	-
100 TO 249 EMPLOYEES.	10	3	-	-	-	-	-	-	-	-	-	1	-	-	1	-	2	1	1	1	1	-
250 EMPLOYEES AND OVER.	6	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-
WASHBURN COUNTY.	33	2	-	1	17	2	2	-	2	-	-	1	-	2	-	-	2	-	3	-	1	-
1 TO 19 EMPLOYEES.	28	2	-	1	16	1	1	-	2	-	-	1	-	2	-	-	2	-	2	-	1	-
20 TO 99 EMPLOYEES.	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
100 TO 249 EMPLOYEES.	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WASHINGTON COUNTY.	167	13	-	1	2	6	1	6	11	3	-	3	5	12	4	24	46	7	7	4	7	5
1 TO 19 EMPLOYEES.	111	6	-	1	2	5	1	2	9	-	-	2	2	10	1	16	36	7	3	2	6	3
20 TO 99 EMPLOYEES.	41	6	-	-	-	1	-	4	1	3	-	1	1	2	3	7	7	1	1	-	1	2
100 TO 249 EMPLOYEES.	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	2	1	-	-	-
250 EMPLOYEES AND OVER.	10	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	2	2	-	-	-
WAUKESHA COUNTY.	728	29	-	3	8	22	15	7	84	19	9	39	2	41	26	102	227	42	4	15	21	13
1 TO 19 EMPLOYEES.	452	13	-	3	18	11	11	3	53	13	6	16	1	25	11	63	155	25	3	8	16	3
20 TO 99 EMPLOYEES.	213	11	-	-	2	4	4	2	25	6	2	17	-	15	9	32	60	7	1	4	5	7
100 TO 249 EMPLOYEES.	35	3	-	-	-	-	-	-	4	-	-	5	1	1	1	4	7	3	-	2	-	2
250 EMPLOYEES AND OVER.	28	-	-	-	-	-	-	1	2	-	-	1	-	-	5	3	5	7	-	1	-	1
WAUPACA COUNTY.	93	25	-	-	1	13	2	3	12	1	-	2	-	5	1	4	10	2	11	-	1	-
1 TO 19 EMPLOYEES.	59	20	-	-	8	-	-	2	9	-	-	2	-	4	-	2	7	1	5	-	1	-
20 TO 99 EMPLOYEES.	25	4	-	-	2	2	2	3	3	1	-	-	-	1	-	2	3	-	1	-	-	-
100 TO 249 EMPLOYEES.	6	1	-	-	1	3	-	1	-	-	-	-	-	-	-	-	-	1	1	-	-	-
250 EMPLOYEES AND OVER.	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
WAUSHARA COUNTY.	21	6	-	-	-	4	-	1	1	1	-	1	1	-	1	-	2	2	1	-	-	-
1 TO 19 EMPLOYEES.	14	5	-	-	-	4	-	-	1	1	-	1	1	-	1	-	1	1	-	-	-	-
20 TO 99 EMPLOYEES.	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WINNEBAGO COUNTY.	262	24	-	2	6	16	8	37	53	8	1	4	1	9	4	24	31	7	4	2	10	11
1 TO 19 EMPLOYEES.	136	16	-	4	4	6	6	6	34	8	1	-	-	6	2	15	11	-	2	1	7	1
20 TO 99 EMPLOYEES.	81	17	-	1	4	4	12	14	14	2	-	4	1	3	-	8	15	4	-	1	4	4
100 TO 249 EMPLOYEES.	28	1	-	1	2	1	8	3	3	-	-	-	-	-	-	1	3	2	-	1	1	1
250 EMPLOYEES AND OVER.	27	-	-	-	1	2	1	11	2	-	-	-	-	2	-	2	2	1	2	-	1	2
WOOD COUNTY.	122	27	-	-	2	19	4	8	15	2	-	2	1	10	2	5	11	-	3	-	5	6
1 TO 19 EMPLOYEES.	71	16	-	-	1	9	2	1	12	1	-	1	-	10	-	3	7	-	2	-	5	1
20 TO 99 EMPLOYEES.	34	10	-	-	1	6	2	1	3	1	-	-	-	2	-	4	-	-	1	-	3	3
100 TO 249 EMPLOYEES.	6	1	-	-	-	2	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-
250 EMPLOYEES AND OVER.	11	-	-	-	-	2	-	5	-	-	-	1	-	-	-	1	-	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see Introduction).

¹ Represents zero.

² Only those counties and size classes that include data for manufacturing establishments are shown.

Wyoming

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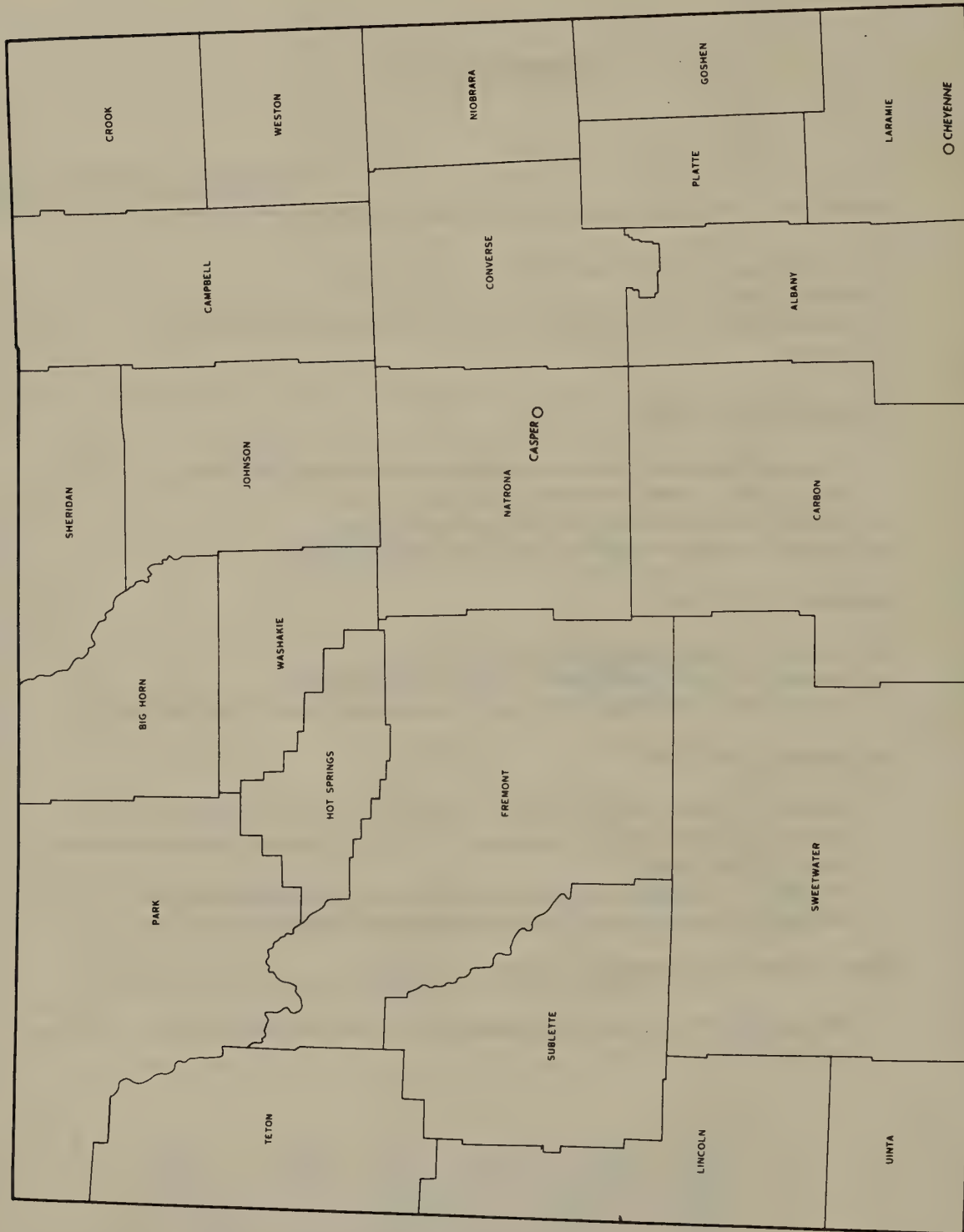
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WYOMING



SCALE
0 10 20 30 40 50 MILES

LEGEND

○ Places of 25,000 to 50,000 inhabitants

U.S. Department of Commerce
BUREAU OF THE CENSUS

SUMMARY OF FINDINGS

In 1977, 8.5 thousand persons were employed in Wyoming's manufacturing establishments. This figure represented an increase of 21 percent from the 1972 figure of 7.0 thousand workers.

The total value added by manufacture for the State amounted to \$382 million in 1977, an increase of approximately 165 percent from the 1972 figure of \$144 million. All dollar figures in this report are in current dollars and are, therefore, not adjusted for changes in price levels.

In the State, the most important industry groups ranked by employment were petroleum and coal products, lumber and wood products, food and kindred products, and stone, clay, and glass products. They accounted for approximately 58 percent of the State's 1977 employment. These same industry groups were in the forefront for 1972 when they accounted for approximately 60 percent of the State's employment.

The most important counties in the State ranked by employment were Natrona, Laramie, Park, and Albany. They accounted for approximately 54 percent of the State's 1977 manufacturing employment. In 1972, these same counties accounted for approximately 54 percent of the State's employment.

The methods of data collection and use of administrative records data are discussed in detail in the Introduction. Small single-unit companies with up to 20 employees (the cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated), statistics on payrolls and receipts were obtained from administrative records of other government agencies. Other statistics were developed from industry averages. For this State, these establishments accounted for 7 percent of the total value of shipments.

Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Central Administrative Offices: 1977 and Earlier Years

(For explanation of terms, see appendix B)

Year	All establishments		Operating manufacturing establishments		Central administrative offices and auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
1977.....	8.5	110.9	8.1	104.4	0.4	6.5
1972.....	7.0	56.9	6.7	53.9	0.3	3.0
1967.....	5.9	37.1	(D)	(D)	(D)	(D)
1963.....	6.8	38.0	(D)	(D)	(D)	(D)

(D) Withheld to avoid disclosing operations of individual companies.

¹Defined in appendix B. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 and 9 and included in State, county, or city totals in other tables.

Table 2a. Historical Statistics for the State: 1977 and Earlier Years

(For explanation of terms, see appendix B)

Year ¹	Establishments ²		All employees ²		Production workers							Comparative indexes and U.S. employment ²			
	Total (no.)	With 20 employ- ees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (milli- ons)	Wages (million dollars)	Value added by manu- facture (million dollars)	Cost of materials ³ (million dollars)	Value of ship- ments ³ (million dollars)	New capital expendi- tures (million dollars)	Percent of U.S. manufac- turing employ- ment (percent)	Index of State em- ploym- ent change (1977= 100)	United States	
													Index of manu- facturing employ- ment change (1977= 100)	U.S. manu- facturing employ- ment (1,000)	
1977 Census...	505	102	8.5	110.9	6.2	12.1	73.9	381.9	918.5	1,288.0	36.2	.04	100	100	^a 19,505.8
1976 ASM.....	(NA)	(NA)	7.0	82.9	4.9	10.0	54.9	279.0	559.2	833.2	30.5	.04	82	96	18,753.0
1975 ASM.....	(NA)	(NA)	7.0	77.8	4.7	9.4	49.3	269.2	572.1	846.2	21.2	.04	82	94	18,302.2
1974 ASM.....	(NA)	(NA)	7.0	68.3	4.8	10.1	43.7	233.3	503.4	712.6	17.2	.04	82	102	19,844.8
1973 ASM.....	(NA)	(NA)	7.5	61.7	5.6	11.3	41.5	171.0	383.0	547.6	15.6	.04	88	102	19,897.9
1972 Census...	377	78	7.0	56.9	5.1	10.1	39.2	143.9	312.3	451.0	23.4	.04	82	98	19,028.7
1971 ASM.....	(NA)	(NA)	6.4	51.1	4.8	9.8	37.8	119.4	244.2	362.6	6.3	.03	75	94	18,363.1
1970 ASM.....	(NA)	(NA)	6.0	45.7	4.4	8.5	33.8	104.3	223.9	331.5	4.7	.03	71	99	19,271.2
1969 ASM.....	(NA)	(NA)	5.9	41.5	4.0	8.2	26.1	98.7	222.8	323.7	9.0	.03	70	103	20,035.5
1968 ASM.....	(NA)	(NA)	6.3	41.6	4.3	8.7	26.4	106.1	211.4	310.0	8.9	.03	74	100	19,527.6
1967 Census...	331	65	5.9	37.1	4.2	8.1	23.4	86.2	192.2	280.2	7.6	.03	70	99	19,323.2
1966 ASM.....	(NA)	(NA)	6.7	38.3	4.6	9.3	25.4	93.2	189.9	282.6	16.7	.04	79	98	19,024.5
1965 ASM.....	(NA)	(NA)	6.7	36.9	4.7	9.4	24.6	95.4	181.4	272.0	9.4	.04	79	92	18,010.2
1964 ASM.....	(NA)	(NA)	6.3	37.7	4.3	8.9	24.5	80.5	177.1	256.8	14.3	.04	74	89	17,268.5
1963 Census...	342	69	6.8	38.0	4.6	9.1	24.7	81.7	(NA)	(NA)	14.0	.04	80	87	16,958.4

(NA) Not available.

¹In annual survey of manufactures (ASM) years, data are estimates based on a representative sample of establishments canvassed annually and may differ from results of a complete canvass of all establishments. ASM publication shows percentage standard errors. Unless otherwise noted, for data prior to 1963, see 1963 Census of Manufactures, vol. III, table 1 of State chapter.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3- digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

⁴This figure may be revised as a result of minor corrections uncovered in the course of processing final industry and area reports.

Table 2b. Selected Operating Ratios for the State: 1977 and Earlier Years

(For explanation of terms, see appendix B)

Year ¹	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials per dollar of industry shipments (percent)	Cost of materials and payroll per dollar of industry shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production worker hour (dollars)
1977 Census.....	13,047	73	1,952	6.11	71	80	44,929	29	31.56
1976 ASM.....	11,843	70	2,041	5.49	67	77	39,857	30	27.90
1975 ASM.....	11,114	67	2,000	5.24	68	77	38,457	29	28.64
1974 ASM.....	9,757	69	2,104	4.33	71	80	33,329	29	23.10
1973 ASM.....	8,227	75	2,018	3.67	70	81	22,800	36	15.13
1972 Census.....	8,129	73	1,980	3.88	69	82	20,557	40	14.25
1971 ASM.....	7,984	75	2,042	3.86	67	81	18,656	43	12.18
1970 ASM.....	7,617	73	1,932	3.98	68	81	17,383	44	12.27
1969 ASM.....	7,034	68	2,050	3.18	69	82	16,729	42	12.04
1968 ASM.....	6,603	68	2,023	3.03	68	82	16,841	39	12.20
1967 Census.....	6,288	71	1,929	2.89	69	82	14,610	43	10.64
1966 ASM.....	5,716	69	2,022	2.73	67	81	13,910	41	10.02
1965 ASM.....	5,507	70	2,000	2.62	67	80	14,239	39	10.15
1964 ASM.....	5,984	68	2,070	2.75	69	84	12,778	47	9.04
1963 Census.....	5,588	68	1,978	2.71	(NA)	(NA)	12,015	47	8.98

Note: For qualifications to data, see footnotes on table 2a.

(NA) Not available.

Table 3a. Summary Statistics for the State: 1977 and 1972

(For explanation of terms, see appendix B)

Item	Unit of measure	1977	1972
All establishments.....	number.....	505	377
With 1 to 19 employees.....	do.....	406	299
With 20 to 99 employees.....	do.....	83	63
With 100 or more employees.....	do.....	19	15
All employees, average for year.....	1,000.....	8.5	7.0
Payroll for year, all employees.....	mil. dollars...	110.9	56.9
Production workers:			
Average for year.....	1,000.....	6.2	5.1
March.....	do.....	5.8	4.7
May.....	do.....	6.0	4.8
August.....	do.....	6.3	5.2
November.....	do.....	6.5	5.7
Hours.....	millions.....	12.1	10.1
January to March.....	do.....	2.9	2.5
April to June.....	do.....	2.9	2.4
July to September.....	do.....	3.1	2.5
October to December.....	do.....	3.2	2.7
Wages.....	mil. dollars...	73.9	39.2
Cost of materials, etc.....	do.....	918.5	312.3
Materials, parts, containers, etc., consumed.....	do.....	859.2	282.6
Resales.....	do.....	16.0	14.6
Fuels consumed.....	do.....	24.0	7.6
Purchased electric energy.....	do.....	5.6	2.9
Contract work.....	do.....	13.6	4.7
Value of shipments, including resales.....	do.....	1,288.0	451.0
Value of resales.....	do.....	17.3	16.1
Value added by manufacture.....	do.....	381.9	143.9
Manufacturers' inventories:			
Beginning of year.....	do.....	124.5	50.5
Finished products.....	do.....	58.5	27.5
Work in process.....	do.....	33.0	9.3
Materials, supplies, fuel, etc.....	do.....	33.0	13.7
End of year.....	do.....	142.8	58.1
Finished products.....	do.....	67.8	29.2
Work in process.....	do.....	36.1	12.9
Materials, supplies, fuel, etc.....	do.....	38.9	16.0
Capital expenditures for plant and equipment.....	do.....	41.7	24.7
New capital expenditures.....	do.....	36.2	23.4
New buildings and structures.....	do.....	11.3	5.2
New machinery and equipment.....	do.....	24.9	18.2
Used capital expenditures.....	do.....	5.5	1.3

¹Including central administrative offices and auxiliaries (for definition, see appendix B).²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 3b. Supplemental State Statistics Based on Sample Estimates: 1977

(For explanation of terms, see appendix B. For description of annual survey of manufactures (ASM), see appendix F)

Item	Amount (million dollars)	Standard error of estimate (percent)	Item	Amount (million dollars)	Standard error of estimate (percent)
Gross value of depreciable assets:			Rental payments:		
Total:			Total.....	4.1	6
Beginning of year.....	397.2	3	Buildings and other structures.....	(.9)	17
New capital expenditures.....	(28.9)	15	Machinery and equipment.....	3.2	5
Used capital expenditures.....	4.7	11			
Retirements.....	8.2	6	Depreciation charges during 1977:		
End of year.....	422.5	3	Total.....	22.4	5
Buildings and other structures:			Buildings and other structures.....	5.0	5
Beginning of year.....	99.2	3	Machinery and equipment.....	17.4	5
New capital expenditures.....	(4.8)	16			
Used capital expenditures.....	.1	10	Supplemental labor costs:		
Retirements.....	1.6	4	Total.....	17.5	2
End of year.....	102.5	3	Legal costs.....	7.7	1
Machinery and equipment:			Voluntary costs.....	9.8	5
Beginning of year.....	298.0	3			
New capital expenditures.....	24.1	14	Purchased services:		
Automobiles, trucks, etc., for highway use....	.4	(NA)	Cost of purchased services for the repair of--		
Computers and peripheral data processing equip.	.1	(NA)	Buildings and other structures.....	2.0	4
All other.....	13.6	(NA)	Response coverage ratio (percent).....	5.9	(X)
New machinery and equipment, n.s.k.....	10.0	(NA)	Machinery.....	(4.2)	(A)
Used capital expenditures.....	4.6	11	Response coverage ratio (percent).....	5.8	(X)
Retirements.....	6.6	6	Cost of purchased communication services.....	(.8)	45
End of year.....	320.1	3	Response coverage ratio (percent).....	5.6	(X)

Note: Expenditures data, shown in tables 2a, 3a, and 4-8, are census universe figures and may differ from ASM sample estimates shown in this table. Table 3b figures represent best estimate of year-to-year change as measured by continuing ASM sample, but are subject to sampling errors. Hence, as estimates of level, they are not as reliable as universe figures.

(A) Indicates standard errors of 100 percent or more. Figures in parentheses have standard errors of 15 percent or more.

(NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

Table 4. All Manufacturing Statistics for the State, Counties, and Selected Cities: 1977 and 1972

(For explanation of terms, see appendix B)

Geographic area	E ¹	1977										1972		
		All establishments ²		All employees ²		Production workers			Value added by manufacture (mil. ddo1)	Cost of materials ³ (mil. dol.)	Value of shipments ³ (mil. dol.)	New capital expenditures (mil. dol.)	All employees ² (1,000)	Value added by manufacture (mil. dol.)
		Total (no.)	With 20 employ-ees or more (no.)	Number (1,000)	Payroll (mil. dol.)	Number (1,000)	Hours (mil-lions)	Wages (mil. dol.)						
Wyoming.....		505	102	8.5	110.9	6.2	12.1	73.9	381.9	918.5	1,288.0	36.2	7.0	143.9
COUNTIES														
Albany.....	E1	32	11	.6	6.0	.5	.8	4.7	16.5	9.1	25.4	.6	.5	7.5
Big Horn.....	E1	18	2	.3	3.5	.2	.5	2.7	12.1	21.0	33.5	.6	.3	10.2
Campbell.....	E1	10	2	.1	1.2	.1	.2	.9	2.1	2.7	4.9	(D)	(Z)	.4
Carbon.....	E1	16	3	.2	1.9	.1	.2	1.3	3.2	4.7	7.8	.4	(D)	(D)
Converse.....	E1	8	-	.1	.6	(Z)	.1	.5	1.2	1.8	3.0	(D)	(Z)	.2
Crook.....	E1	9	2	.1	1.0	.1	.2	.8	2.1	2.7	4.8	.3	.1	1.8
Fremont.....	E1	52	6	.6	5.9	.5	.8	4.2	16.1	17.2	32.8	.8	.4	6.4
Goshen.....	E1	10	2	.3	3.2	.2	.5	2.6	6.3	15.2	20.9	(D)	(D)	(D)
Hot Springs.....	E1	9	1	.1	1.6	(Z)	(Z)	.2	.5	.6	1.1	(Z)	.1	.2
Johnson.....		10	1	.1	1.1	(Z)	.1	.3	2.4	2.4	4.8	(D)	.1	.7
Laramie.....		54	17	1.3	16.1	1.0	1.9	11.3	35.3	137.7	172.8	5.6	.9	14.6
Lincoln.....		26	4	.3	4.2	.3	.5	3.0	7.6	25.3	32.2	(D)	.3	4.5
Natrona.....		89	20	2.0	30.5	1.4	2.7	20.9	178.2	481.4	651.6	(D)	1.7	35.5
Niobrara.....		5	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(Z)	.2
Park.....		26	5	.7	10.9	.3	.8	4.3	12.4	52.4	63.8	2.9	.7	8.4
Platte.....		11	1	.1	.8	.1	.1	.6	2.9	3.5	6.4	.3	(Z)	.3
Sheridan.....	E1	31	7	.3	3.8	.3	.5	2.7	4.2	13.8	17.9	1.0	.4	7.4
Sublette.....	E1	7	-	(Z)	.1	(Z)	(Z)	.1	.5	.2	.7	(D)	(Z)	.2
Sweetwater.....		18	5	.4	5.8	.2	.5	3.7	50.6	29.9	80.4	(D)	.2	5.6
Teton.....	E2	24	4	.3	2.9	.3	.5	2.2	5.1	4.7	9.7	.3	.2	1.9
Uinta.....		12	2	.1	1.6	.1	.3	1.4	10.5	4.8	15.3	.8	.1	.8
Washakie.....		15	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	4.4
Weston.....		13	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
CITIES WITH 450 EMPLOYEES OR MORE														
Casper.....		77	14	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Cheyenne.....		44	12	.9	11.2	.7	1.3	7.5	18.0	124.8	142.5	(D)	(D)	(D)

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (Z) Less than 50 thousand dollars or hours; under 50 employees.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data based on administrative records data account for 10 percent or more of figures shown: E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 to 99 percent; E0-100 percent.

²Including central administrative offices and auxiliaries (for definition, see appendix B).

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1977 and 1972

(Industry groups and industries with 150 employees or more. For explanation of terms, see appendix B)

SIC code	Industry	1977											1972		
		E ¹	All establishments		All employees		Production workers			Value added by manu- fac- ture (mil. dol.)	Cost of mater- ials ³ (mil. dol.)	Value of ship- ments ³ (mil. dol.)	New capital expend- itures (mil. dol.)	All employ- ees ² (1,000)	Value added by manu- fac- ture (mil. dol.)
			Total (no.)	With 20 em- ploy- ees or more (no.)	Num- ber ² (1,000)	Pay- roll (mil. dol.)	Num- ber (1,000)	Hours (mil.)	Wages (mil. dol.)						
	All industries.....		505	102	8.5	110.9	6.2	12.1	73.9	381.9	918.5	1,288.0	36.2	7.0	143.9
20	Food and kindred products...		68	14	1.2	13.5	.8	1.8	9.0	32.1	86.0	117.3	4.1	1.1	19.4
202	Dairy products.....		15	3	.2	1.9	.1	.2	.9	5.2	21.5	26.1	(D)	.3	3.8
206	Sugar, confectionery products.....	E1	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2063	Beet sugar.....	E1	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
208	Beverages.....		9	3	.2	2.5	.1	.2	.8	7.6	12.6	20.2	.9	(NA)	(NA)
2086	Bottled and canned soft drinks....		9	3	.2	2.5	.1	.2	.8	7.6	12.6	20.2	.9	(NA)	(NA)
23	Apparel, other textile products.....	E1	13	4	.3	2.4	.3	.5	1.6	4.4	4.5	8.9	.2	(NA)	(NA)
232	Men's and boys' furnishings.....	E2	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2329	Men's and boys' clothing, n.e.c....	E2	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
239	Miscellaneous fabricated textile products.....	E1	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2394	Canvas and related products.....	E1	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
24	Lumber and wood products....	E1	112	18	1.3	13.8	1.2	2.2	11.5	36.6	37.4	73.4	(D)	1.0	14.5
2411	Logging camps, log contractors.....	E1	57	1	.2	2.2	.2	.3	1.9	5.3	4.9	10.1	.7	.2	3.2
242	Sawmills and planing mills.....	E1	35	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	11.4
2421	Sawmills, planing mills, general..	E1	34	13	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	11.4
27	Printing and publishing.....	E1	90	15	.9	9.0	.5	.9	4.6	19.4	7.5	26.9	.7	.8	10.8
2711	Newspapers.....	E1	44	9	.6	6.0	.3	.5	2.6	14.1	3.7	17.8	(D)	.6	8.5
275	Commercial printing.....	E2	38	5	.2	2.5	.2	.3	1.7	4.0	3.2	7.2	.2	AA	(D)
28	Chemicals and allied products		12	4	.4	7.1	.3	.7	5.4	67.2	37.3	102.9	(D)	(NA)	(NA)
281	Industrial inorganic chemicals.....		4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2812	Alkalies and chlorine.....		1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
29	Petroleum and coal products.		15	8	1.3	26.3	1.0	2.1	19.2	149.9	671.6	813.2	(D)	1.3	53.0
2911	Petroleum refining.....		10	7	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	51.8
32	Stone, clay, glass products.	E1	58	16	1.1	14.8	.9	1.8	11.3	38.0	38.1	75.9	(D)	.9	21.7
327	Concrete, gypsum, plaster products..	E1	55	15	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3273	Ready-mixed concrete.....	E1	38	9	.7	8.8	.5	1.0	6.4	18.3	21.7	40.0	1.9	.4	6.6
3275	Gypsum products.....		2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
34	Fabricated metal products...	E1	22	4	.3	2.9	.2	.3	1.8	6.5	9.7	15.9	(D)	(NA)	(NA)
35	Machinery, exc. electrical..	E1	52	9	.8	9.1	.6	1.1	6.0	16.8	15.1	31.9	2.0	CC	(D)
353	Construction, related machinery.....	E1	11	2	.2	2.1	.1	.2	1.1	4.5	2.9	7.4	1.1	(NA)	(NA)
3533	Oil field machinery.....	E1	10	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
359	Miscellaneous machinery, except electrical.....	E2	27	4	.4	4.7	.3	.7	3.6	8.8	7.2	16.2	.6	AA	(D)
3599	Machinery, exc. electrical, n.e.c.	E2	27	4	.4	4.7	.3	.7	3.6	8.8	7.2	16.2	.6	AA	(D)
	Central administrative offices and auxiliaries (see definition in appendix B).....		8	2	.4	6.5	-	-	-	-	-	-	-	.3	-

Note: "All industries" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition see appendix B).

- Represents zero. (D) Withheld to avoid disclosing operations of individual companies. (NA) Not available.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1--10 to 19 percent; E2--20 to 29 percent; E3--30 to 39 percent; E4--40 to 49 percent; E5--50 to 59 percent; E6--60 to 69 percent; E7--70 to 79 percent; E8--80 to 89 percent; E9--90 to 99 percent; E0--100 percent.

²Statistics for some industry groups and industries are withheld to avoid disclosing operations of individual companies. However, for such industry groups and industries with 150 employees or more, number of establishments is shown and employment size range is indicated by one of the following symbols: AA--150 to 249 employees; BB--250 to 499 employees; CC--500 to 999 employees; EE--1,000 to 2,499 employees; FF--2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in the group.

³Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 6. Statistics by Selected Industry Group and Industry for Standard Metropolitan Statistical Areas: 1977 and 1972

(Not applicable)

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1977 and 1972

(Counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose operations of individual companies. For explanation of terms, see appendix B)

SIC code	County and industry	1977											1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (mil. dol.)	Value added by manufacture (mil. dol.)
			Total (no.)	With 20 employees or more (no.)	Num-ber (1,000)	Payroll (mil. dol.)	Num-ber (1,000)	Hours (mil.)	Wages (mil. dol.)					
29	Albany County.....	E1	32	11	.6	6.0	.5	.8	4.7	16.5	9.1	25.4	.6	.5 7.5
	Fremont County.....	E1	52	6	.6	5.9	.5	.8	4.2	16.1	17.2	32.8	.8	.4 6.4
	Laramie County.....		54	17	1.3	16.1	1.0	1.9	11.3	35.3	137.7	172.8	5.6	.9 14.6
	Natrona County.....		89	20	2.0	30.5	1.4	2.7	20.9	178.2	481.4	651.6	(D)	1.7 35.5
	Petroleum and coal products.....		6	4	.8	17.2	.6	1.2	12.3	150.6	454.7	597.2	(D)	.7 19.7
	Park County.....		26	5	.7	10.9	.3	.8	4.3	12.4	52.4	63.8	2.9	.7 8.4

Note: "County" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

(D) Data withheld to avoid disclosing operations of individual companies.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those States where estimated data based on administrative records data account for 10 percent or more of figures shown: E1--10 to 19 percent; E2--20 to 29 percent; E3--30 to 39 percent; E4--40 to 49 percent; E5--50 to 59 percent; E6--60 to 69 percent; E7--70 to 79 percent; E8--80 to 89 percent; E9--90 to 99 percent; E0--100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 8. Statistics by Selected Industry Group and Industry for Selected Cities: 1977 and 1972

(Cities with 450 employees or more and industry groups and industries with 450 employees or more within cities, except those that would disclose operations of individual companies. For explanation of terms, see appendix B)

SIC code	City and industry	1977											1972	
		E ¹	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	New capital expenditures (mil. dol.)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Num-ber (1,000)	Payroll (mil. dol.)	Num-ber (1,000)	Hours (mil.)	Wages (mil. dol.)					
	Cheyenne.....		44	12	.9	11.2	.7	1.3	7.5	18.0	124.8	142.5	(D)	(D) (D)

Note: "City" level includes data on number of establishments, total employment, and total payroll for central administrative offices and auxiliaries (for definition, see appendix B).

(D) Withheld to avoid disclosing operations of individual companies.

¹Payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the balance of items shown for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at time data were tabulated. The following symbols are shown for those industry groups and industries where estimated data based on administrative records data account for 10 percent or more of figures shown: E1--10 to 19 percent; E2--20 to 29 percent; E3--30 to 39 percent; E4--40 to 49 percent; E5--50 to 59 percent; E6--60 to 69 percent; E7--70 to 79 percent; E8--80 to 89 percent; E9--90 to 99 percent; E0--100 percent.

²Aggregate of cost of materials and value of shipments for industry groups (2- and 3-digit) and for all manufacturing industries includes extensive duplication, since products of some industries are used as materials by others (see appendix B).

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977

State, county, and employee size class ¹		Establishments in major industry groups																										
		All establishments	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Wyoming.....		505	68	-	1	13	112	4	1	90	12	15	4	4	58	1	22	52	5	9	4	22	8					
1 to 4 employees.....		269	39	-	-	6	67	3	1	57	7	3	2	3	20	-	8	19	3	5	3	17	6					
5 to 9 employees.....		10	10	-	-	2	14	-	-	8	-	-	-	-	-	-	4	13	1	-	-	2						
10 to 19 employees.....		66	6	-	-	1	13	-	-	10	-	4	-	1	12	1	6	11	-	2	-	2						
20 to 49 employees.....		53	8	-	1	2	9	1	-	11	1	-	-	-	-	-	4	6	-	-	1	1						
50 to 99 employees.....		30	2	-	1	8	1	-	-	3	1	2	1	-	9	-	-	2	-	1	-	-						
100 to 249 employees.....		16	4	-	-	1	1	-	-	1	1	4	-	-	-	-	-	1	1	-	-	-						
250 to 499 employees.....		3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Albany County.....		32	4	-	-	1	14	1	-	5	-	-	-	-	3	-	-	1	1	1	1	-						
1 to 19 employees.....		21	3	-	-	1	9	-	-	3	-	-	-	-	1	-	-	1	1	1	-	-						
20 to 99 employees.....		11	1	-	-	-	5	1	-	2	-	-	-	-	2	-	-	-	-	-	-	-						
Big Horn County.....		18	5	-	-	-	2	1	-	4	-	2	-	-	2	-	-	1	-	1	-	-						
1 to 19 employees.....		16	4	-	-	-	2	1	-	4	-	2	-	-	1	-	-	1	-	1	-	-						
20 to 99 employees.....		1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
100 to 249 employees.....		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Campbell County.....		10	-	-	-	-	-	-	-	3	-	-	-	-	4	-	-	1	2	-	-	-						
1 to 19 employees.....		8	-	-	-	-	-	-	-	2	-	-	-	-	3	-	-	1	2	-	-	-						
20 to 99 employees.....		2	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-						
Carbon County.....		16	2	-	-	-	9	-	-	3	-	-	-	-	1	-	-	-	-	-	-	-						
1 to 19 employees.....		13	2	-	-	-	8	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-						
20 to 99 employees.....		3	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-						
Converse County.....		8	-	-	-	-	1	-	-	2	1	1	-	-	3	-	-	-	-	-	-	-						
1 to 19 employees.....		8	-	-	-	-	1	-	-	2	1	1	-	-	3	-	-	-	-	-	-	-						
Crook County.....		9	-	-	-	-	6	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-						
1 to 19 employees.....		7	-	-	-	-	4	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-						
20 to 99 employees.....		2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Fremont County.....		52	7	-	-	1	16	-	-	5	5	-	1	1	3	-	-	4	-	1	-	6						
1 to 19 employees.....		46	7	-	-	1	14	-	-	4	4	-	1	1	3	-	-	3	-	1	-	5						
20 to 99 employees.....		6	-	-	-	-	2	-	-	1	1	-	-	-	-	-	-	-	-	-	-	1						
Goshute County.....		10	3	-	-	-	-	-	-	4	-	-	-	-	2	-	-	1	-	-	-	-						
1 to 19 employees.....		8	2	-	-	-	-	-	-	4	-	-	-	-	1	-	-	1	-	-	-	-						
20 to 99 employees.....		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
100 to 249 employees.....		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Hot Springs County.....		9	1	-	-	-	3	-	-	1	-	-	-	-	1	-	-	2	-	-	-	1						
1 to 19 employees.....		8	1	-	-	-	3	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-						
20 to 249 employees.....		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Johnson County.....		10	2	-	-	-	5	-	-	1	-	-	-	-	1	-	1	-	-	-	-	-						
1 to 19 employees.....		9	2	-	-	-	5	-	-	1	-	-	-	-	1	-	1	-	-	-	-	-						
20 to 99 employees.....		1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Laramie County.....		54	8	-	-	1	6	-	1	15	1	1	1	1	5	-	2	5	1	1	1	2						
1 to 19 employees.....		37	5	-	-	-	4	-	1	11	-	-	1	-	3	-	2	4	-	-	1	3						
20 to 99 employees.....		13	3	-	-	-	2	-	-	-	-	1	-	-	2	-	-	1	-	-	-	-						
100 to 249 employees.....		4	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-						
Lincoln County.....		26	2	-	-	1	12	-	-	3	-	2	-	-	4	-	-	1	-	1	-	-						
1 to 19 employees.....		22	1	-	-	1	11	-	-	3	-	1	-	-	4	-	-	1	-	-	-	-						
20 to 99 employees.....		3	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-						
100 to 249 employees.....		1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Natrona County.....		89	10	-	-	2	4	2	-	15	3	6	1	1	5	-	11	19	1	1	1	4						
1 to 19 employees.....		69	10	-	-	2	4	2	-	12	3	2	1	1	2	-	8	13	1	-	1	4						
20 to 99 employees.....		14	-	-	-	-	-	-	-	2	-	-	-	-	3	-	3	5	-	-	-	-						
100 to 249 employees.....		2	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	1	-	-	-	-						
250 employees and over.....		2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Industry Group for the State and Counties: 1977 - Con.

(Major groups descriptions are: 20--food and kindred products; 21--tobacco manufactures; 22--textile mill products; 23--apparel and other textile products; 24--lumber and wood products; 25--furniture and fixtures; 26--paper and allied products; 27--printing and publishing; 28--chemicals and allied products; 29--petroleum and coal products; 30--rubber and miscellaneous plastics products; 31--leather and leather products; 32--stone, clay, and glass products; 33--primary metal industries; 34--fabricated metal products; 35--machinery, except electrical; 36--electric and electronic equipment; 37--transportation equipment; 38--instruments and related products; 39--miscellaneous manufacturing industries. For explanation of terms, see appendix B.)

State, county, and employee size class ¹	All establishments	Establishments in major groups																				
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	CAO's
Niobrara County.....	5	1	-	-	-	-	-	-	1	-	1	-	-	-	-	-	2	-	-	-	-	-
1 to 19 employees.....	5	1	-	-	-	-	-	-	1	-	1	-	-	-	-	-	2	-	-	-	-	-
Park County.....	26	5	-	-	-	3	-	-	6	-	1	1	-	3	-	2	4	-	-	-	-	1
1 to 19 employees.....	21	4	-	-	-	3	-	-	6	-	-	-	-	2	-	2	4	-	-	-	-	-
20 to 99 employees.....	3	1	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
100 to 249 employees.....	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Platte County.....	11	1	-	-	-	1	-	-	1	-	-	-	-	4	-	-	1	-	2	-	1	-
1 to 19 employees.....	10	1	-	-	-	1	-	-	1	-	-	-	-	3	-	-	1	-	2	-	1	-
20 to 99 employees.....	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Sheridan County.....	31	5	-	1	1	6	-	-	5	-	-	-	-	4	-	2	4	-	1	1	1	-
1 to 19 employees.....	24	3	-	-	1	5	-	-	4	-	-	-	-	4	-	1	3	-	1	1	1	-
20 to 99 employees.....	7	2	-	1	-	1	-	-	1	-	-	-	-	-	-	1	1	-	-	-	-	-
Sublette County.....	7	1	-	-	-	2	-	-	3	-	-	-	-	-	-	-	-	-	-	-	1	-
1 to 19 employees.....	7	1	-	-	-	2	-	-	3	-	-	-	-	-	-	-	-	-	-	-	1	-
Sweetwater County.....	18	2	-	-	-	-	-	-	4	2	-	-	-	3	1	1	3	-	-	-	2	-
1 to 19 employees.....	13	1	-	-	-	-	-	-	3	-	-	-	-	2	1	1	3	-	-	-	2	-
20 to 99 employees.....	4	1	-	-	-	-	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-
250 employees and over.....	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Teton County.....	24	2	-	-	6	2	-	-	4	-	-	-	1	2	-	2	2	-	-	-	3	-
1 to 19 employees.....	20	2	-	-	3	2	-	-	4	-	-	-	1	1	-	2	2	-	-	-	3	-
20 to 99 employees.....	4	-	-	3	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Uinta County.....	12	-	-	-	-	10	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
1 to 19 employees.....	10	-	-	-	-	8	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-
20 to 99 employees.....	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Washakie.....	15	7	-	-	-	2	-	-	1	-	-	-	-	4	-	-	1	-	-	-	-	-
1 to 19 employees.....	11	4	-	-	-	2	-	-	-	-	-	-	-	4	-	-	1	-	-	-	-	-
20 to 99 employees.....	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 to 249 employees.....	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Weston County.....	13	-	-	-	-	8	-	-	1	-	1	-	-	2	-	1	-	-	-	-	-	-
1 to 19 employees.....	10	-	-	-	-	6	-	-	1	-	-	-	-	2	-	1	-	-	-	-	-	-
20 to 99 employees.....	3	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-

Note: Data on number of establishments by employment size class by 4-digit SIC industry for States, counties, and selected cities are presented in Location of Manufacturing Plants data series. This series is available only on computer tape (see introduction).

- Represents zero.

¹Only those counties and size classes that include data for manufacturing establishments are shown.

APPENDIX A. Standard Consolidated Statistical Areas and Standard Metropolitan Statistical Areas

(Titles and definitions of the SCSA's and the SMSA's in the United States established by the Department of Commerce, Office of Federal Statistical Policy and Standards, as of December 1977)

Standard Consolidated Statistical Areas

Boston-Lawrence-Lowell, Mass.-N.H.	Consists of Boston, Mass., SMSA; Lawrence-Haverhill, Mass.-N.H., SMSA; Lowell, Mass.-N.H., SMSA; and Brockton, Mass., SMSA
Chicago-Gary, Ill.-Ind.¹	Consists of Chicago, Ill., SMSA, and Gary-Hammond-East Chicago, Ind., SMSA
Cincinnati-Hamilton, Ohio-Ky.-Ind.	Consists of Cincinnati, Ohio-Ky.-Ind., SMSA, and Hamilton-Middletown, Ohio, SMSA
Cleveland-Akron-Lorain, Ohio	Consists of Cleveland, Ohio, SMSA; Akron, Ohio, SMSA; and Lorain-Elyria, Ohio, SMSA
Detroit-Ann Arbor, Mich.	Consists of Detroit, Mich., SMSA, and Ann Arbor, Mich., SMSA
Houston-Galveston, Tex.	Consists of Houston, Tex., SMSA, and Galveston-Texas City, Tex., SMSA
Los Angeles-Long Beach-Anaheim, Calif	Consists of Los Angeles-Long Beach, Calif., SMSA; Anaheim-Santa Ana-Garden Grove, Calif., SMSA; Riverside-San Bernardino-Ontario, Calif., SMSA; and Oxnard-Simi Valley-Ventura, Calif., SMSA
Miami-Fort Lauderdale, Fla.	Consists of Miami, Fla., SMSA, and Fort Lauderdale-Hollywood, Fla., SMSA
Milwaukee-Racine, Wis.	Consists of Milwaukee, Wis., SMSA, and Racine, Wis., SMSA
New York-Newark-Jersey City, N.Y.-N.J.-Conn.²	Consists of New York, N.Y.-N.J., SMSA; Nassau-Suffolk, N.Y., SMSA; Newark, N.J., SMSA; Jersey City, N.J., SMSA; New Brunswick-Perth Amboy-Sayreville, N.J., SMSA; Paterson-Clifton-Passaic, N.J., SMSA; Long Branch-Asbury Park, N.J., SMSA; Stamford, Conn., SMSA; and Norwalk, Conn., SMSA
Philadelphia-Wilmington-Trenton, Pa.-Del.-N.J.-Md.	Consists of Philadelphia, Pa.-N.J., SMSA; Wilmington, Del.-N.J.-Md., SMSA; and Trenton, N.J., SMSA
San Francisco-Oakland-San Jose, Calif.	Consists of San Francisco-Oakland, Calif., SMSA; San Jose, Calif., SMSA, and Vallejo-Fairfield-Napa, Calif., SMSA
Seattle-Tacoma, Wash.	Consists of Seattle-Everett, Wash., SMSA, and Tacoma, Wash., SMSA

Standard Metropolitan Statistical Areas

Abilene, Tex.	Consists of Callahan, Jones, and Taylor Counties, Tex.
Akron, Ohio	Consists of Portage and Summit Counties, Ohio
Albany, Ga.	Consists of Dougherty and Lee Counties, Ga.
Albany-Schenectady-Troy, N.Y.	Consists of Albany, Montgomery, Rensselaer, Saratoga, and Schenectady Counties, N.Y.
Albuquerque, N. Mex.	Consists of Bernalillo and Sandoval Counties, N. Mex.
Alexandria, La.	Consists of Grant and Rapides Parishes, La.
Allentown-Bethlehem-Easton, Pa.-N.J.	Consists of Carbon, Lehigh, and Northampton Counties, Pa.; and Warren County, N.J.
Altoona, Pa.	Coextensive with Blair County, Pa.
Amarillo, Tex.	Consists of Potter and Randall Counties, Tex.
Anaheim-Santa Ana-Garden Grove, Calif.	Coextensive with Orange County, Calif.
Anchorage, Alaska	Coextensive with Anchorage Division, Alaska
Anderson, Ind.	Coextensive with Madison County, Ind.
Ann Arbor, Mich.	Coextensive with Washtenaw County, Mich.
Anniston, Ala.³	Coextensive with Calhoun County, Ala.
Appleton-Oshkosh, Wis.	Consists of Calumet, Outagamie, and Winnebago Counties, Wis.
Asheville, N.C.	Consists of Buncombe and Madison Counties, N.C.
Atlanta, Ga.	Consists of Butts, Cherokee, Clayton, Cobb, De Kalb, Douglas, Fayette, Forsyth, Fulton, Gwinnett, Henry, Newton, Paulding, Rockdale, and Walton Counties, Ga.

SMSA'S—Con.

Atlantic City, N.J.	Coextensive with Atlantic County, N.J.
Augusta, Ga.-S.C.	Consists of Columbia and Richmond Counties, Ga., and Aiken County, S.C.
Austin, Tex. ⁴	Consists of Hays, Travis, and Williamson Counties, Tex.
Bakersfield, Calif.	Coextensive with Kern County, Calif.
Baltimore, Md.	Consists of Baltimore ⁵ city and Anne Arundel, Baltimore, Carroll, Harford, and Howard Counties, Md.
Baton Rouge, La.	Consists of Ascension, East Baton Rouge, Livingston, and West Baton Rouge Parishes, La.
Battle Creek, Mich.	Consists of Barry and Calhoun Counties, Mich.
Bay City, Mich.	Coextensive with Bay County, Mich.
Beaumont-Port Arthur-Orange, Tex.	Consists of Hardin, Jefferson, and Orange Counties, Tex.
Billings, Mont.	Coextensive with Yellowstone County, Mont.
Biloxi-Gulfport, Miss.	Consists of Hancock, Harrison, and Stone Counties, Miss.
Binghamton, N.Y.-Pa.	Consists of Broome and Tioga Counties, N.Y., and Susquehanna County, Pa.
Birmingham, Ala.	Consists of Jefferson, St. Clair, Shelby, and Walker Counties, Ala.
Bloomington, Ind. ³	Coextensive with Monroe County, Ind.
Bloomington-Normal, Ill.	Coextensive with McLean County, Ill.
Boise City, Idaho	Coextensive with Ada County, Idaho
Boston, Mass.	Consists of Beverly, Lynn, Peabody, and Salem cities, and Boxford, Danvers, Hamilton, Lynnfield, Manchester, Marblehead, Middleton, Nahant, Saugus, Swampscott, Topsfield, and Wenham towns in Essex County; Cambridge, Everett, Malden, Medford, Melrose, Newton, Somerville, Waltham, and Woburn cities, and Acton, Arlington, Ashland, Bedford, Belmont, Boxborough, Burlington, Carlisle, Concord, Framingham, Holliston, Lexington, Lincoln, Natick, North Reading, Reading, Sherborn, Stoneham, Sudbury, Wakefield, Watertown, Wayland, Weston, Wilmington, and Winchester towns in Middlesex County; Quincy city, and Bellingham, Braintree, Brookline, Canton, Cohasset, Dedham, Dover, Foxborough, Franklin, Holbrook, Medfield, Medway, Millis, Milton, Needham, Norfolk, Norwood, Randolph, Sharon, Stoughton, Walpole, Wellesley, Westwood, Weymouth, and Wrentham towns in Norfolk County; Abington, Duxbury, Hanover, Hanson, Hingham, Hull, Kingston, Marshfield, Norwell, Pembroke, Rockland, Scituate towns in Plymouth County; and Boston, Chelsea, and Revere cities, and Winthrop town in Suffolk County, Mass.
Bradenton, Fla. ³	Coextensive with Manatee County, Fla.
Bridgeport, Conn.	Consists of Bridgeport and Shelton cities, and Easton, Fairfield, Monroe, Stratford, and Trumbull towns in Fairfield County; and Derby and Milford cities in New Haven County, Conn.
Bristol, Conn.	Consists of Bristol city and Burlington town in Hartford County, and Plymouth town in Litchfield County, Conn.
Brockton, Mass.	Consists of Easton town in Bristol County; Avon town in Norfolk County; and Brockton city, and Bridgewater, East Bridgewater, Halifax, West Bridgewater, and Whitman towns in Plymouth County, Mass.
Brownsville-Harlingen-San Benito, Tex.	Coextensive with Cameron County, Tex.
Bryan-College Station, Tex.	Coextensive with Brazos County, Tex.
Buffalo, N.Y.	Consists of Erie and Niagara Counties, N.Y.
Burlington, N.C.	Coextensive with Alamance County, N.C.
Canton, Ohio	Consists of Carroll and Stark Counties, Ohio
Cedar Rapids, Iowa	Coextensive with Linn County, Iowa
Champaign-Urbana-Rantoul, Ill.	Coextensive with Champaign County, Ill.
Charleston-North Charleston, S.C. ⁶	Consists of Berkeley, Charleston, and Dorchester Counties, S.C.
Charleston, W. Va.	Consists of Kanawha and Putnam Counties, W. Va.
Charlotte-Gastonia, N.C.	Consists of Gaston, Mecklenburg, and Union Counties, N.C.

SMSA'S—Con.

Chattanooga, Tenn.-Ga.	Consists of Hamilton, Marion, and Sequatchie Counties, Tenn.; and Catoosa, Dade, and Walker Counties, Ga.
Chicago, Ill.	Consists of Cook, Du Page, Kane, Lake, McHenry, and Will Counties, Ill.
Cincinnati, Ohio-Ky.-Ind.	Consists of Clermont, Hamilton, and Warren Counties, Ohio; Boone, Campbell, and Kenton Counties, Ky.; and Dearborn County, Ind.
Clarksville-Hopkinsville, Tenn.-Ky. ³	Consists of Montgomery County, Tenn. and Christian County, Ky.
Cleveland, Ohio	Consists of Cuyahoga, Geauga, Lake, and Medina Counties, Ohio
Colorado Springs, Colo.	Consists of El Paso and Teller Counties, Colo.
Columbia, Mo.	Coextensive with Boone County, Mo.
Columbia, S.C.	Consists of Lexington and Richland Counties, S.C.
Columbus, Ga.-Ala.	Consists of Chattahoochee County and Columbus ⁵ (consolidated government), Ga., and Russell County, Ala.
Columbus, Ohio	Consists of Delaware, Fairfield, Franklin, Madison, and Pickaway Counties, Ohio
Corpus Christi, Tex.	Consists of Nueces and San Patricio Counties, Tex.
Dallas-Fort Worth, Tex.	Consists of Collin, Dallas, Denton, Ellis, Hood, Johnson, Kaufman, Parker, Rockwall, Tarrant, and Wise Counties, Tex.
Danbury, Conn.	Consists of Danbury city and Bethel, Brookfield, New Fairfield, Newtown, and Redding towns in Fairfield County; and New Milford town in Litchfield County, Conn.
Davenport-Rock Island-Moline, Iowa-Ill.	Consists of Scott County, Iowa and Henry and Rock Island Counties, Ill.
Dayton, Ohio	Consists of Greene, Miami, Montgomery, and Preble Counties, Ohio
Daytona Beach, Fla.	Coextensive with Volusia County, Fla.
Decatur, Ill.	Coextensive with Macon County, Ill.
Denver-Boulder, Colo.	Consists of Adams, Arapahoe, Boulder, Denver, Douglas, Gilpin, and Jefferson Counties, Colo.
Des Moines, Iowa	Consists of Polk and Warren Counties, Iowa
Detroit, Mich.	Consists of Lapeer, Livingston, Macomb, Oakland, St. Clair, and Wayne Counties, Mich.
Dubuque, Iowa	Coextensive with Dubuque County, Iowa
Duluth-Superior, Minn.-Wis.	Consists of St. Louis County, Minn. and Douglas County, Wis.
Eau Claire, Wis. ³	Consists of Chippewa and Eau Claire Counties, Wis.
El Paso, Tex.	Coextensive with El Paso County, Tex.
Elmira, N.Y.	Coextensive with Chemung County, N.Y.
Erie, Pa.	Coextensive with Erie County, Pa.
Eugene-Springfield, Oreg.	Coextensive with Lane County, Oreg.
Evansville, Ind.-Ky.	Consists of Gibson, Posey, Vanderburgh, and Warrick Counties, Ind. and Henderson County, Ky.
Fall River, Mass.-R.I.	Consists of Fall River city and Dighton, Somerset, Swansea, and Westport towns in Bristol County, Mass.; and Little Compton, Portsmouth, and Tiverton towns in Newport County, R.I.
Fargo-Moorhead, N. Dak.-Minn.	Consists of Cass County, N. Dak. and Clay County, Minn.
Fayetteville, N.C.	Coextensive with Cumberland County, N.C.
Fayetteville-Springdale, Ark.	Consists of Benton and Washington Counties, Ark.
Fitchburg-Leominster, Mass.	Consists of Shirley and Townsend towns in Middlesex County, and Fitchburg and Leominster cities and Lunenburg and Westminster towns in Worcester County, Mass.
Flint, Mich.	Consists of Genesee and Shiawassee Counties, Mich.
Florence, Ala.	Consists of Colbert and Lauderdale Counties, Ala.
Fort Collins, Colo. ³	Coextensive with Larimer County, Colo.
Fort Lauderdale-Hollywood, Fla.	Coextensive with Broward County, Fla.
Fort Myers, Fla.	Coextensive with Lee County, Fla.
Fort Smith, Ark.-Okla.	Consists of Crawford and Sebastian Counties, Ark. and Le Flore and Sequoyah Counties, Okla.

SMSA'S—Con.

Fort Wayne, Ind.	Consists of Adams, Allen, De Kalb, and Wells Counties, Ind.
Fresno, Calif.	Coextensive with Fresno County, Calif.
Gadsden, Ala.	Coextensive with Etowah County, Ala.
Gainesville, Fla.	Coextensive with Alachua County, Fla.
Galveston-Texas City, Tex.	Coextensive with Galveston County, Tex.
Gary-Hammond-East Chicago, Ind.	Consists of Lake and Porter Counties, Ind.
Grand Forks, N. Dak.-Minn. ³	Consists of Grand Forks County, N. Dak. and Polk County, Minn.
Grand Rapids, Mich.	Consists of Kent and Ottawa Counties, Mich.
Great Falls, Mont.	Coextensive with Cascade County, Mont.
Greeley, Colo. ³	Coextensive with Weld County, Colo.
Green Bay, Wis.	Coextensive with Brown County, Wis.
Greensboro—Winston-Salem—High Point, N.C.	Consists of Davidson, Forsyth, Guilford, Randolph, Stokes, and Yadkin Counties, N.C.
Greenville-Spartanburg, S.C.	Consists of Greenville, Pickens, and Spartanburg Counties, S.C.
Hamilton-Middletown, Ohio	Coextensive with Butler County, Ohio
Harrisburg, Pa.	Consists of Cumberland, Dauphin, and Perry Counties, Pa.
Hartford, Conn.	Consists of Hartford city and Avon, Bloomfield, Canton, East Granby, East Hartford, East Windsor, Enfield, Farmington, Glastonbury, Granby, Manchester, Marlborough, Newington, Rocky Hill, Simsbury, South Windsor, Suffield, West Hartford, Wethersfield, Windsor, and Windsor Locks towns in Hartford County; New Hartford town in Litchfield County; Cromwell, East Hampton, and Portland towns in Middlesex County; Colchester town in New London County; and Andover, Bolton, Columbia, Coventry, Ellington, Hebron, Stafford, Tolland, Vernon, and Willington towns in Tolland County, Conn.
Honolulu, Hawaii	Coextensive with Honolulu County, Hawaii
Houston, Tex.	Consists of Brazoria, Fort Bend, Harris, Liberty, Montgomery, and Waller Counties, Tex.
Huntington-Ashland, W. Va.-Ky.-Ohio	Consists of Cabell and Wayne Counties, W. Va.; Boyd and Greenup Counties, Ky.; and Lawrence County, Ohio
Huntsville, Ala.	Consists of Limestone, Madison, and Marshall Counties, Ala.
Indianapolis, Ind.	Consists of Boone, Hamilton, Hancock, Hendricks, Johnson, Marion, Morgan, and Shelby Counties, Ind.
Jackson, Mich.	Coextensive with Jackson County, Mich.
Jackson, Miss.	Consists of Hinds and Rankin Counties, Miss.
Jacksonville, Fla.	Consists of Baker, Clay, Duval, Nassau, and St. Johns Counties, Fla.
Jersey City, N.J.	Coextensive with Hudson County, N.J.
Johnson City-Kingsport-Bristol, Tenn.-Va. ⁷	Consists of Carter, Hawkins, Sullivan, Unicoi, and Washington Counties, Tenn., and Bristol ⁵ city and Scott and Washington Counties, Va.
Johnstown, Pa.	Consists of Cambria and Somerset Counties, Pa.
Kalamazoo-Portage, Mich.	Consists of Kalamazoo and Van Buren Counties, Mich.
Kankakee, Ill. ³	Coextensive with Kankakee County, Ill.
Kansas City, Mo.-Kans.	Consists of Cass, Clay, Jackson, Platte, and Ray Counties, Mo., and Johnson and Wyandotte Counties, Kans.
Kenosha, Wis.	Coextensive with Kenosha County, Wis.
Killeen-Temple, Tex.	Consists of Bell and Coryell Counties, Tex.
Knoxville, Tenn.	Consists of Anderson, Blount, Knox, and Union Counties, Tenn.
Kokomo, Ind. ³	Consists of Howard and Tipton Counties, Ind.
La Crosse, Wis.	Coextensive with La Crosse County, Wis.
Lafayette, La.	Coextensive with Lafayette Parish, La.
Lafayette-West Lafayette, Ind.	Coextensive with Tippecanoe County, Ind.
Lake Charles, La.	Coextensive with Calcasieu Parish, La.

SMSA'S—Con.

Lakeland-Winter Haven, Fla.	Coextensive with Polk County, Fla.
Lancaster, Pa.	Coextensive with Lancaster County, Pa.
Lansing-East Lansing, Mich.	Consists of Clinton, Eaton, Ingham, and Ionia Counties, Mich.
Laredo, Tex.	Coextensive with Webb County, Tex.
Las Vegas, Nev.	Coextensive with Clark County, Nev.
Lawrence, Kans. ⁵	Coextensive with Douglas County, Kans.
Lawrence-Haverhill, Mass.-N.H.	Consists of Haverhill and Lawrence cities and Amesbury, Andover, Georgetown, Groveland, Merrimac, Methuen, North Andover, Salisbury, and West Newbury towns in Essex County, Mass. and Atkinson, Hampstead, Kingston, Newton, Plaistow, Salem, and Windham towns in Rockingham County, N.H.
Lawton, Okla.	Coextensive with Comanche County, Okla.
Lewiston-Auburn, Maine	Consists of Auburn and Lewiston cities and Lisbon town in Androscoggin County, Maine
Lexington-Fayette, Ky. ⁸	Consists of Bourbon, Clark, Fayette, Jessamine, Scott, and Woodford Counties, Ky.
Lima, Ohio	Consists of Allen, Auglaize, Putnam, and Van Wert Counties, Ohio
Lincoln, Nebr.	Coextensive with Lancaster County, Nebr.
Little Rock-North Little Rock, Ark.	Consists of Pulaski and Saline Counties, Ark.
Long Branch-Asbury Park, N.J.	Coextensive with Monmouth County, N.J.
Longview, Tex. ³	Consists of Gregg and Harrison Counties, Tex.
Lorain-Elyria, Ohio	Coextensive with Lorain County, Ohio
Los Angeles-Long Beach, Calif.	Coextensive with Los Angeles County, Calif.
Louisville, Ky.-Ind.	Consists of Bullitt, Jefferson, and Oldham Counties, Ky. and Clark and Floyd Counties, Ind.
Lowell, Mass.-N.H.	Consists of Lowell city and Billerica, Chelmsford, Dracut, Tewksbury, Tyngsborough, and Westford towns in Middlesex County, Mass.; and Pelham town in Hillsborough County, N.H.
Lubbock, Tex.	Coextensive with Lubbock County, Tex.
Lynchburg, Va.	Consists of Lynchburg ⁵ city and Amherst, Appomattox, and Campbell Counties, Va.
Macon, Ga.	Consists of Bibb, Houston, Jones, and Twiggs Counties, Ga.
Madison, Wis.	Coextensive with Dane County, Wis.
Manchester, N.H.	Consists of Manchester city and Bedford and Goffstown towns in Hillsborough County; Allenstown, Hooksett, and Pembroke towns in Merrimack County; and Derry and Londonderry towns in Rockingham County, N.H.
Mansfield, Ohio	Coextensive with Richland County, Ohio
McAllen-Pharr-Edinburg, Tex.	Coextensive with Hidalgo County, Tex.
Melbourne-Titusville-Cocoa, Fla.	Coextensive with Brevard County, Fla.
Memphis, Tenn.-Ark.-Miss.	Consists of Shelby and Tipton Counties, Tenn.; Crittenden County, Ark.; and De Soto County, Miss.
Meriden, Conn.	Coextensive with Meriden city in New Haven County, Conn.
Miami, Fla.	Coextensive with Dade County, Fla.
Midland, Tex.	Coextensive with Midland County, Tex.
Milwaukee, Wis.	Consists of Milwaukee, Ozaukee, Washington, and Waukesha Counties, Wis.
Minneapolis-St. Paul, Minn.-Wis.	Consists of Anoka, Carver, Chisago, Dakota, Hennepin, Ramsey, Scott, Washington, and Wright Counties, Minn. and St. Croix County, Wis.
Mobile, Ala.	Consists of Baldwin and Mobile Counties, Ala.
Modesto, Calif.	Coextensive with Stanislaus County, Calif.
Monroe, La.	Coextensive with Ouachita Parish, La.
Montgomery, Ala.	Consists of Autauga, Elmore, and Montgomery Counties, Ala.
Muncie, Ind.	Coextensive with Delaware County, Ind.
Muskegon-North Shores-Muskegon Heights, Mich. ⁹	Consists of Muskegon and Oceana Counties, Mich.

SMSA'S—Con.

Nashua, N.H.	Consists of Nashua city and Amherst, Hudson, Merrimack, and Milford towns in Hillsborough County, N.H.
Nashville-Davidson, Tenn.	Consists of Cheatham, Davidson, Dickson, Robertson, Rutherford, Sumner, Williamson, and Wilson Counties, Tenn.
Nassau-Suffolk, N.Y.	Consists of Nassau and Suffolk Counties, N.Y.
New Bedford, Mass.	Consists of New Bedford city and Acushnet, Dartmouth, Fairhaven, and Freetown towns in Bristol County; and Lakeville, Marion, and Mattapoisett towns in Plymouth County, Mass.
New Britain, Conn.	Consists of New Britain city and Berlin, Plainville, and Southington towns in Hartford County, Conn.
New Brunswick-Perth Amboy-Sayreville, N.J.	Coextensive with Middlesex County, N.J.
New Haven-West Haven, Conn. ¹⁰	Consists of Clinton town in Middlesex County; and New Haven and West Haven cities and Bethany, Branford, East Haven, Guilford, Hamden, Madison, North Branford, North Haven, Orange, Wallingford, and Woodbridge towns in New Haven County, Conn.
New London-Norwich, Conn.-R.I.	Consists of Old Saybrook town in Middlesex County; New London and Norwich cities and Bozrah, East Lyme, Griswold, Groton, Ledyard, Lisbon, Montville, Old Lyme, Preston, Sprague, Stonington, and Waterford towns in New London County, Conn.; and Hopkinton and Westerly towns in Washington County, R.I.
New Orleans, La.	Consists of Jefferson, Orleans, St. Bernard, and St. Tammany Parishes, La.
New York, N.Y.-N.J.	Consists of Bronx, Kings, New York, Putnam, Queens, Richmond, Rockland, and Westchester Counties, N.Y. and Bergen County, N.J.
Newark, N.J.	Consists of Essex, Morris, Somerset, and Union Counties, N.J.
Newport News-Hampton, Va. ¹¹	Consists of Hampton, ⁵ Newport News, ⁵ Poquoson, ⁵ and Williamsburg ⁵ cities and Gloucester, James City, and York Counties, Va.
Norfolk-Virginia Beach-Portsmouth, Va.-N.C. ¹²	Consists of Chesapeake, ⁵ Norfolk, ⁵ Portsmouth, ⁵ Suffolk, ⁵ and Virginia Beach ⁵ cities, Va. and Currituck County, N.C.
Northeast Pennsylvania	Consists of Lackawanna, Luzerne, and Monroe Counties, Pa.
Norwalk, Conn.	Consists of Norwalk city and Weston, Westport, and Wilton towns in Fairfield County, Conn.
Odessa, Tex.	Coextensive with Ector County, Tex.
Oklahoma City, Okla.	Consists of Canadian, Cleveland, McClain, Oklahoma, and Pottawatomie Counties, Okla.
Omaha, Nebr.-Iowa	Consists of Douglas and Sarpy Counties, Nebr. and Pottawattamie County, Iowa
Orlando, Fla.	Consists of Orange, Osceola, and Seminole Counties, Fla.
Owensboro, Ky.	Coextensive with Daviess County, Ky.
Oxnard-Simi Valley-Ventura, Calif.	Coextensive with Ventura County, Calif.
Panama City, Fla. ³	Coextensive with Bay County, Fla.
Parkersburg-Marietta, W. Va.-Ohio	Consists of Wirt and Wood Counties, W. Va. and Washington County, Ohio
Pascagoula-Moss Point, Miss. ³	Coextensive with Jackson County, Miss.
Paterson-Clifton-Passaic, N.J.	Coextensive with Passaic County, N.J.
Pensacola, Fla.	Consists of Escambia and Santa Rosa Counties, Fla.
Peoria, Ill.	Consists of Peoria, Tazewell, and Woodford Counties, Ill.
Petersburg-Colonial Heights-Hopewell, Va.	Consists of Colonial Heights, ⁵ Hopewell, ⁵ and Petersburg ⁵ cities and Dinwiddie and Prince George Counties, Va.
Philadelphia, Pa.-N.J.	Consists of Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa.; and Burlington, Camden, and Gloucester Counties, N.J.
Phoenix, Ariz.	Coextensive with Maricopa County, Ariz.
Pine Bluff, Ark.	Coextensive with Jefferson County, Ark.
Pittsburgh, Pa.	Consists of Allegheny, Beaver, Washington, and Westmoreland Counties, Pa.
Pittsfield, Mass.	Consists of Pittsfield city and Adams, Cheshire, Dalton, Lanesbrough, Lee, Lenox, and Stockbridge towns in Berkshire County, Mass.

SMSA'S—Con.

Portland, Maine	Consists of Portland, South Portland, and Westbrook cities and Cape Elizabeth, Cumberland, Falmouth, Freeport, Gorham, Scarborough, Windham, and Yarmouth towns in Cumberland County; and Saco city and Old Orchard Beach town in York County, Maine
Portland, Oreg.-Wash.	Consists of Clackamas, Multnomah, and Washington Counties, Oreg. and Clark County, Wash.
Poughkeepsie, N.Y.	Coextensive with Dutchess County, N.Y.
Providence-Warwick-Pawtucket, R.I.-Mass. . . .	Consists of Barrington, Bristol, and Warren towns in Bristol County; Warwick city and Coventry, East Greenwich, and West Warwick towns in Kent County; Jamestown town in Newport County; Central Falls, Cranston, East Providence, Pawtucket, Providence, and Woonsocket cities and Burrillville, Cumberland, Johnston, Lincoln, North Providence, North Smithfield, Scituate, and Smithfield towns in Providence County; and Narragansett, North Kingstown, and South Kingstown towns in Washington County, R.I.; Attleboro city and North Attleborough, Norton, Rehoboth, and Seekonk towns in Bristol County; Plainville town in Norfolk County; and Blackstone and Millville towns in Worcester County, Mass.
Provo-Orem, Utah	Coextensive with Utah County, Utah
Pueblo, Colo.	Coextensive with Pueblo County, Colo.
Racine, Wis.	Coextensive with Racine County, Wis.
Raleigh-Durham, N.C.	Consists of Durham, Orange, and Wake Counties, N.C.
Reading, Pa.	Coextensive with Berks County, Pa.
Reno, Nev.	Coextensive with Washoe County, Nev.
Richland-Kennewick, Wash.	Consists of Benton and Franklin Counties, Wash.
Richmond, Va. ¹³	Consists of Richmond ⁵ city and Charles City, Chesterfield, Goochland, Hanover, Henrico, New Kent, and Powhatan Counties, Va.
Riverside-San Bernardino-Ontario, Calif.	Consists of Riverside and San Bernardino Counties, Calif.
Roanoke, Va.	Consists of Roanoke ⁵ and Salem ⁵ cities and Botetourt, Craig, and Roanoke Counties, Va.
Rochester, Minn.	Coextensive with Olmsted County, Minn.
Rochester, N.Y.	Consists of Livingston, Monroe, Ontario, Orleans, and Wayne Counties, N.Y.
Rockford, Ill.	Consists of Boone and Winnebago Counties, Ill.
Sacramento, Calif.	Consists of Placer, Sacramento, and Yolo Counties, Calif.
Saginaw, Mich.	Coextensive with Saginaw County, Mich.
St. Cloud, Minn.	Consists of Benton, Sherburne, and Stearns Counties, Minn.
St. Joseph, Mo.	Consists of Andrew and Buchanan Counties, Mo.
St. Louis, Mo.-Ill.	Consists of St. Louis ⁵ city and Franklin, Jefferson, St. Charles, and St. Louis Counties, Mo.; and Clinton, Madison, Monroe, and St. Clair Counties, Ill.
Salem, Oreg.	Consists of Marion and Polk Counties, Oreg.
Salinas-Seaside-Monterey, Calif.	Coextensive with Monterey County, Calif.
Salt Lake City-Ogden, Utah	Consists of Davis, Salt Lake, Tooele, and Weber Counties, Utah
San Angelo, Tex.	Coextensive with Tom Green County, Tex.
San Antonio, Tex.	Consists of Bexar, Comal, and Guadalupe Counties, Tex.
San Diego, Calif.	Coextensive with San Diego County, Calif.
San Francisco-Oakland, Calif.	Consists of Alameda, Contra Costa, Marin, San Francisco, and San Mateo Counties, Calif.
San Jose, Calif.	Coextensive with Santa Clara County, Calif.
Santa Barbara-Santa Maria-Lompoc, Calif.	Coextensive with Santa Barbara County, Calif.
Santa Cruz, Calif.	Coextensive with Santa Cruz County, Calif.
Santa Rosa, Calif.	Coextensive with Sonoma County, Calif.
Sarasota, Fla.	Coextensive with Sarasota County, Fla.
Savannah, Ga.	Consists of Bryan, Chatham, and Effingham Counties, Ga.
Seattle-Everett, Wash.	Consists of King and Snohomish Counties, Wash.

SMSA'S—Con.

Sherman-Denison, Tex.	Coextensive with Grayson County, Tex.
Shreveport, La.	Consists of Bossier, Caddo, and Webster Parishes, La.
Sioux City, Iowa-Nebr.	Consists of Woodbury County, Iowa and Dakota County, Nebr.
Sioux Falls, S. Dak.	Coextensive with Minnehaha County, S. Dak.
South Bend, Ind.	Consists of Marshall and St. Joseph Counties, Ind.
Spokane, Wash.	Coextensive with Spokane County, Wash.
Springfield, Ill.	Consists of Menard and Sangamon Counties, Ill.
Springfield, Mo.	Consists of Christian and Greene Counties, Mo.
Springfield, Ohio	Consists of Champaign and Clark Counties, Ohio
Springfield-Chicopee-Holyoke, Mass.-Conn.	Consists of Chicopee, Holyoke, Springfield, and Westfield cities and Agawam, East Longmeadow, Hampden, Longmeadow, Ludlow, Monson, Palmer, Southwick, West Springfield, and Wilbraham towns in Hampden County; Northampton city and Belchertown, Easthampton, Granby, Hadley, Hatfield, Southampton, and South Hadley towns in Hampshire County; Warren town in Worcester County, Mass.; and Somers town in Tolland County, Conn.
Stamford, Conn.	Consists of Stamford city and Darien, Greenwich, and New Canaan towns in Fairfield County, Conn.
Steubenville-Weirton, Ohio-W. Va.	Consists of Jefferson County, Ohio and Brooke and Hancock Counties, W. Va.
Stockton, Calif.	Coextensive with San Joaquin County, Calif.
Syracuse, N.Y.	Consists of Madison, Onondaga, and Oswego Counties, N.Y.
Tacoma, Wash.	Coextensive with Pierce County, Wash.
Tallahassee, Fla.	Consists of Leon and Wakulla Counties, Fla.
Tampa-St. Petersburg, Fla.	Consists of Hillsborough, Pasco, and Pinellas Counties, Fla.
Terre Haute, Ind.	Consists of Clay, Sullivan, Vermillion, and Vigo Counties, Ind.
Texarkana, Tex.-Texarkana, Ark.	Consists of Bowie County, Tex. and Little River and Miller Counties, Ark.
Toledo, Ohio-Mich.	Consists of Fulton, Lucas, Ottawa, and Wood Counties, Ohio and Monroe County, Mich.
Topeka, Kans.	Consists of Jefferson, Osage, and Shawnee Counties, Kans.
Trenton, N.J.	Coextensive with Mercer County, N.J.
Tucson, Ariz.	Coextensive with Pima County, Ariz.
Tulsa, Okla.	Consists of Creek, Mayes, Osage, Rogers, Tulsa, and Wagoner Counties, Okla.
Tuscaloosa, Ala.	Coextensive with Tuscaloosa County, Ala.
Tyler, Tex.	Coextensive with Smith County, Tex.
Utica-Rome, N.Y.	Consists of Herkimer and Oneida Counties, N.Y.
Vallejo-Fairfield-Napa, Calif.	Consists of Napa and Solano Counties, Calif.
Vineland-Millville-Bridgeton, N.J.	Coextensive with Cumberland County, N.J.
Waco, Tex.	Coextensive with McLennan County, Tex.
Washington, D.C.-Md.-Va. ¹⁴	Consists of District of Columbia; Charles, Montgomery, and Prince Georges Counties, Md; and Alexandria, ⁵ Fairfax, ⁵ Falls Church, ⁵ Manassas, ⁵ and Manassas Park ⁵ cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Va.
Waterbury, Conn.	Consists of Thomaston, Watertown, and Woodbury towns in Litchfield County; and Waterbury city, Naugatuck borough, and Beacon Falls, Cheshire, Middlebury, Prospect, Southbury, and Wolcott towns in New Haven County, Conn.
Waterloo-Cedar Falls, Iowa	Coextensive with Black Hawk County, Iowa
West Palm Beach-Boca Raton, Fla.	Coextensive with Palm Beach County, Fla.
Wheeling, W. Va.-Ohio	Consists of Marshall and Ohio Counties, W. Va. and Belmont County, Ohio
Wichita, Kans.	Consists of Butler and Sedgwick Counties, Kans.
Wichita Falls, Tex.	Consists of Clay and Wichita Counties, Tex.
Williamsport, Pa.	Coextensive with Lycoming County, Pa.
Wilmington, Del.-N.J.-Md.	Consists of New Castle County, Del.; Salem County, N.J.; and Cecil County, Md.
Wilmington, N.C.	Consists of Brunswick and New Hanover Counties, N.C.

SMSA'S—Con.

Worcester, Mass.	Consists of Worcester city and Auburn, Berlin, Boylston, Brookfield, Charlton, East Brookfield, Grafton, Holden, Leicester, Millbury, Northborough, Northbridge, North Brookfield, Oxford, Paxton, Shrewsbury, Spencer, Sterling, Sutton, Upton, Uxbridge, Webster, Westborough, and West Boylston towns in Worcester County, Mass.
Yakima, Wash.	Coextensive with Yakima County, Wash.
York, Pa.	Consists of Adams and York Counties, Pa.
Youngstown-Warren, Ohio	Consists of Mahoning and Trumbull Counties, Ohio

¹ Retitled from Chicago-Northeastern Indiana SCA since 1972 Economic Censuses; but no boundary change.

² Includes New York-Northeastern New Jersey SCA and Long Branch-Asbury Park, N.J., Stamford, Conn., and Norwalk, Conn., SMSA's added since 1972 Economic Censuses.

³ Newly designated SMSA since 1972 Economic Censuses.

⁴ Williamson County, Tex. added since 1972 Economic Censuses.

⁵ Independent of any county and considered a county equivalent.

⁶ Retitled from Charleston, S.C., SMSA since 1972 Economic Censuses.

⁷ Retitled from Kingsport-Bristol, Tenn.-Va., SMSA and Carter, Unicorn, and Washington Counties, Tenn., added since 1972 Economic Censuses.

⁸ Retitled from Lexington, Ky., SMSA since 1972 Economic Censuses.

⁹ Retitled from Muskegon-Muskegon Heights, Mich., SMSA since 1972 Economic Censuses.

¹⁰ Killingworth town in Middlesex County was deleted since 1972 Economic Censuses.

¹¹ Poquoson city was added since 1972 Economic Censuses.

¹² Nansemond city was deleted since 1972 Economic Censuses.

¹³ New Kent County added since 1972 Economic Censuses.

¹⁴ Manassas and Manassas Park cities added since 1972 Economic Censuses.

Abbreviations Used for State Names
(Alaska, Hawaii, Idaho, Iowa, Maine, Ohio and Utah are not abbreviated)

Ala.	Alabama	Ind.	Indiana	N.C.	North Carolina	R.I.	Rhode Island
Ariz.	Arizona	Kans.	Kansas	N. Dak.	North Dakota	S.C.	South Carolina
Ark.	Arkansas	Ky.	Kentucky	Nebr.	Nebraska	S. Dak.	South Dakota
Calif.	California	La.	Louisiana	Nev.	Nevada	Tenn.	Tennessee
Colo.	Colorado	Mass.	Massachusetts	N.H.	New Hampshire	Tex.	Texas
Conn.	Connecticut	Md.	Maryland	N.J.	New Jersey	Va.	Virginia
D.C.	District of Columbia	Mich.	Michigan	N. Mex.	New Mexico	Vt.	Vermont
Del.	Delaware	Minn.	Minnesota	N.Y.	New York	Wash.	Washington
Fla.	Florida	Miss.	Mississippi	Okla.	Oklahoma	Wis.	Wisconsin
Ga.	Georgia	Mo.	Missouri	Oreg.	Oregon	W. Va.	West Virginia
Ill.	Illinois	Mont.	Montana	Pa.	Pennsylvania	Wyo.	Wyoming

APPENDIX B. Explanation of Terms

This appendix is in two sections. Section 1 includes items for which all establishments that were mailed census of manufactures forms were requested to supply information. Section 2 covers supplementary items for which only establishments included in the annual survey of manufactures (ASM) sample were requested to supply information. Results of the supplementary ASM inquiries are included in this report. (See the Introduction, Manufacturing Universe and Census Report Forms, for a detailed explanation of the use of the ASM sample in a census of manufactures year and a description of the various report forms.)

SECTION 1. ITEMS COLLECTED ON ALL CENSUS OF MANUFACTURES REPORT FORMS

Employment and related items—The regular report forms requested separate information on production workers as of a payroll period for each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees—This item includes all full-time and part-time employees on the payrolls of operating manufacturing establishments during any part of the pay period ending nearest the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays and paid vacations during these pay periods. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average for the mid-month payroll periods of March, May, August, and November.

Production workers—This item includes workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial and watchman services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Supervisory employees above the working foreman level are excluded from this category.

All other employees—This item covers nonproduction personnel of the manufacturing establishment, including those engaged in factory supervision above the working foreman level, sales (including driver salesmen), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical. Also included are employees on the payroll of the manufacturing establishment who are

engaged in the construction of major additions or alterations to the plant and who are utilized as a separate work force.

In addition to reports sent to operating manufacturing establishments, information on employment during the payroll period which included March 12 and annual payrolls was also requested of administrative offices or auxiliary units (e.g., warehouses and research and development laboratories) of multiestablishment companies. However, these figures are not included in the totals for individual industries shown in this report. They are included in the Summary and Geographic Area reports and in the final bound volumes as a separate category.

Administrative office and auxiliary unit employees—As noted in the Introduction, companies were asked to file a special report form for any administrative office that was at a different location than the establishments managed or served, or at the same location as one of the establishments but not operated as an integral part of the establishment. Employees in **administrative offices** are concerned with the general management of multiestablishment companies, i.e., with the general supervision and control of two units or more, such as manufacturing plants, mines, sales branches, or stores. The functions of these employees may include (1) program planning, including sales research and coordination of purchasing, production, and distribution; (2) company purchasing, including general contracts and purchasing methods; (3) company financial policy and accounting, tax accounting, company sales and profits reports, and personnel accounting; (4) general engineering, including design of product machinery and equipment, and direction of engineering effort conducted at the individual operation locations; (5) direction of company personnel matters; and (6) legal and patent matters. **Auxiliaries** are separate storage facilities, garages, repair shops, purchasing offices, sales promotion offices, research and development organizations, etc., serving the plants or central management of the company.

The employment and payrolls of the administrative offices and auxiliaries serving manufacturing establishments are included in all tables at the "all industries" level. In tables where industry detail is shown, the data for these units appear as a separate industry group.

Payrolls—This item includes the gross earnings paid in the calendar year 1977 to all employees on the payroll of operating

manufacturing establishments. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, all bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations, but excludes payments to proprietors or partners of unincorporated concerns. Also excluded are payments to members of Armed Forces and pensioners carried on the active payroll of manufacturing establishments.

The census definition of payrolls is identical to that recommended to all Federal statistical agencies by the Office of Federal Statistical Policy and Standards. It should be noted that this definition does not include employers' Social Security contributions or other nonpayroll labor costs such as employees' pension plans, group insurance premiums, and workers' compensation.

The ASM provides estimates of employers' supplemental labor costs, both those required by Federal and State laws and those incurred voluntarily or as part of collective bargaining agreements. (Supplemental labor costs are explained later in this appendix.)

As in the case of employment figures, the payrolls of separate administrative offices and auxiliary units of multi-establishment companies are included in all tables at the "all industries" level. In tables where industry detail is shown, the data for these units appear as a separate industry group.

Production worker hours—This item covers hours worked or paid for at the plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave when the employee was not at the plant.

Cost of materials—This item refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuel consumed, regardless of whether what was consumed was purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

The important components of this cost item are (1) all raw materials, semifinished goods, parts, components, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year; (2) electric energy purchased; (3) fuels consumed for heat, power, or generating electricity; (4) work done by others on materials or parts furnished by manufacturing establishments (contract work); and (5) products bought and resold in the same condition. (See discussion of duplication of data.)

Value of shipments—This item covers the received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all

miscellaneous receipts, such as receipts for contract work performed for others, installation and repair, sales of scrap, and sale of products bought and resold without further processing. Included are all items made by or for the establishments from materials owned by it whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, i.e., including not only the direct costs of production but also a reasonable proportion of "all other costs" (including company overhead) and profit. (See discussion of duplication of data.)

Duplication in cost of materials and value of shipments—The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication, since the products of some industries are used as materials by others. With some important exceptions, such as for motor vehicles and parts, this duplication is not significant at the 4-digit industry level. However, it is significant at the 2-digit and 3-digit industry group level because these totals often include industries which represent successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the "Food" group and the addition of pulp mills to paper mills in the "Paper and Allied Products" group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication—the value of finished manufactures—tends to approximate two-thirds of the total value of products reported in the census of manufactures.

Value added by manufacture—This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments (products manufactured plus receipts for services rendered). The result of this calculation is then adjusted by the addition of value added by merchandising operations (i.e., the difference between the sales value and the cost of merchandise sold without further manufacture, processing, or assembly) plus the net change in finished goods and work-in-process inventories between the beginning and end of the year.

"Value added" avoids the duplication in the figure for value of shipments which results from the use of products of some establishments as materials by others. Value added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

New and used capital expenditures—For establishments in operation and establishments under construction but not yet in operation, manufacturers were asked to report their new expenditures for (1) permanent additions and major alterations to manufacturing establishments, and (2) machinery and equip-

ment used for replacement and additions to plant capacity if they were of the type for which depreciation accounts were ordinarily maintained.

The totals for new expenditures exclude that portion of expenditures leased from nonmanufacturing concerns, new facilities owned by the Federal Government but operated under contract by private companies, and plant and equipment furnished to the manufacturer by communities and nonprofit organizations. Also excluded are expenditures for used plant and equipment (although reported in the census), expenditures for land, and cost of maintenance and repairs charged as current operating expenses.

Manufacturers were also requested to report the value of all used buildings and equipment purchased during the year at the purchase price. For any equipment or structure transferred to the use of the reporting establishment by the parent company or one of its subsidiaries, the value at which it was transferred to the establishment was to be reported. Furthermore, if the establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported under used capital expenditures.

Total expenditures for used plant and equipment is a universe figure; i.e., it is collected on all census forms. However, the breakdown of this figure between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form and is subject to sampling error (see table 3b, chapters 2 and 4).

End-of-year inventories—Respondents were asked to report their 1977 and 1976 end-of-year inventories at approximate current costs, if feasible; otherwise, at book values. Since different methods of inventory valuation are used (last-in-first-out (LIFO), first-in-first-out (FIFO), etc.), the definition of the value of inventories aggregate for all establishments in an industry is not precise. The change in inventory between years is of considerably greater significance.

In using inventory data by stage of fabrication for "all industries" and at the 2-digit industry level, it should be noted that an item treated as a finished product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and "all manufacturing" which are aggregates of figures reported by establishments in specified industries.

SECTION 2. ITEMS COLLECTED ONLY ON ASM REPORT FORM

Cost of purchased services—ASM establishments were requested to provide information on the cost of purchased services for the repair of buildings and other structures, the repair of machinery and communication services. Included in the cost of purchased services for the repair of building and machinery are payments made for all maintenance and repair work on buildings and

equipment such as painting, roof repairs, replacing parts, and overhauling equipment. Such payments made to other establishments of the same company and for repair and maintenance of any leased property are also included. Extensive repairs or reconstruction that were capitalized are considered capital expenditures for used buildings and machinery and are, therefore, excluded from this item. Repair and maintenance costs provided by an owner as part of a rental contract and incurred directly by an establishment in using its own work force are also excluded.

The response coverage ratio for each of the three types of purchased services listed above is a measure of the extent to which respondents reported for each item. It is derived for each item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight; see appendix B) for those ASM establishments that reported the specific inquiry to the weighted total employment for all ASM establishments classified in the industry (see table 3c, chapters 2 and 4).

Rental payments—This item includes rental payments for the use of all items for which depreciation reserves would be maintained if they were owned by the establishment, e.g., structures and buildings, and production, office, and transportation equipment. Excluded are royalties and other payments for the use of intangibles and depletable assets, and land rents where separable.

When an establishment of a multiestablishment company was charged rent by another part of the same company for the use of assets owned by the company, it was instructed to exclude that cost from rental payments. However, the book value (original cost) of these company-owned assets were to be reported as assets of the establishment at the end of the year.

If there were assets at an establishment rented from another company, and the rents were paid centrally by the head office of the establishment, the company was instructed to report these rental payments as if they were paid directly by the establishment.

Supplemental labor costs—Supplemental labor costs are divided into legally required expenditures and payments for voluntary programs. The legally required portion consists primarily of Federal old age and survivors' insurance, unemployment compensation, and workers' compensation. Payments for voluntary programs include all programs not specifically required by legislation whether they were employer initiated or the result of collective bargaining. They include the employer portion of such plans as insurance premiums, premiums for supplemental accident and sickness insurance, pension plans, supplemental unemployment compensation, welfare plans, stock purchase plans on which the employer payment is not subject to withholding tax, and deferred profit-sharing plans. They exclude such items as company-operated cafeterias, in-plant medical services, free parking lots, discounts on employee purchases, and uniforms and work clothing for employees. While the excluded items do benefit employees, and all or part of their cost is generally similar to the items covered in the annual survey labor costs statistics, accounting records do not generally provide reliable figures on net employee benefits of these types.

Beginning and end-of-year depreciable assets—The data encompass all fixed depreciable assets on the books of establishments at the beginning and at the end of the year. The values shown represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation). Included are all buildings, structures, machinery, and equipment (production, office, and transportation equipment) for which depreciation reserves are maintained. Excluded are nondepreciable capital assets, including inventories and intangible assets such as patent rights and royalties. Also excluded are land and depletable assets such as timber and mineral rights.

The definition of fixed depreciable assets is consistent with the definition of capital expenditures. For example, expenditures include actual capital outlays during the year, rather than the final value of equipment put in place and buildings completed during the year. Accordingly, the value of assets at the end of the year includes the value of construction in progress. In addition, respondents were requested to make certain that assets at the beginning of the year plus new and used capital expenditures, less retirements, equaled assets at the end of the year.

New and used capital expenditures—The data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used capital expenditures are collected on all census forms. However, the breakdown between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form. (See further explanation on capital expenditures in section 1.)

Breakdown of new capital expenditures for machinery and equipment—ASM establishments were requested to separate

their capital expenditures for new machinery and equipment into (1) automobiles, trucks, etc., for highway use; (2) computers and peripheral data processing equipment; and (3) all other.

The category "automobiles, trucks, etc., for highway use" is intended to measure expenditures for vehicles designed for highway use which were acquired through a purchase of lease-purchase agreement. Vehicles normally operating off public highways—vehicles specifically designed to transport materials, property, or equipment on mining, construction, logging, and petroleum development projects—are excluded from this item.

The "not specified by kind" or n.s.k. item for expenditures for new machinery and buildings shown in table 3b represents the total machinery and equipment expenditures for establishments that did not break down their expenditures for the three specific categories. This means that for most industries the specific categories are understated.

Retirements—Included in this item is the gross value of assets sold, retired, scrapped, destroyed, etc., during 1977. When a complete operation or establishment changed ownership, the respondent was instructed to report the value of the assets sold at the original cost as recorded in the books of the seller. The respondent was also requested to report retirements of equipment or structures owned by a parent company that the establishment was using as if it were a tenant.

Depreciation charges—This item includes depreciation and amortization charged during the year against assets. Depreciation charged against fixed assets acquired since the beginning of the year and against assets sold or retired during the year are components of this category. Respondents were requested to make certain that they did not report accumulated depreciation.

APPENDIX C. Industry Descriptions

This appendix contains descriptions of the 450 4-digit industries for which data were compiled and published in the 1977 Census of Manufactures. With two exceptions, the industries are the same as those described in the 1972 edition of the Standard Industrial Classification (SIC) Manual. SIC Industry 3572, Typewriters, was combined with Industry 3579, Office Machines, N.E.C., in the census tabulations and SIC Industry 3716, Motor Homes Produced on Purchased Chassis, was added.

The industry titles and descriptions, in general, agree with those appearing in the SIC Manual, but the descriptions have been expanded, in some instances, to include references to additional products classified in other industries.

20 FOOD AND KINDRED PRODUCTS

This major group includes establishments manufacturing or processing foods and beverages for human consumption, and certain related products, such as manufactured ice, chewing gum, vegetable and animal fats and oils, and prepared feeds for animals and fowls.

201 MEAT PRODUCTS

2011 Meatpacking Plants.—Establishments primarily engaged in the slaughtering, for their own account or on a contract basis for the trade, of cattle, hogs, sheep, lambs, and calves for meat to be sold or to be used on the same premises in canning and curing, and in making sausage, lard and other products. Establishments primarily engaged in killing, dressing, and packing poultry, rabbits, and other small game are classified in industry 2016; and those primarily engaged in killing and processing horses and other nonfood animals are classified in industry 2047. Establishments primarily engaged in manufacturing sausages and meat specialties from purchased meats are classified in industry 2013; and establishments primarily engaged in canning meat for baby food are classified in industry 2032.

2013 Sausages and Other Prepared Meat Products.—Establishments primarily engaged in manufacturing sausages, cured meats, smoked meats, canned meats, frozen meats, natural sausage casings, and other prepared meats and meat specialties from purchased carcasses and other materials. Sausage kitchens and other prepared meat plants operated by packing houses as separate establishments are also included in this industry. Establishments primarily engaged in canning or otherwise processing poultry, rabbits, and other small game are classified in industries 2016 and 2017. Establishments primarily engaged in the cutting up and resale of purchased fresh carcasses are classified in trade industries. Establishments primarily engaged in canning meat for baby food are classified in industry 2032.

2016 Poultry Dressing Plants.—Establishments primarily engaged in slaughtering and dressing poultry for their own account or on a contract basis for the trade for meat to be sold or to be used on the same premises in further processing, including cooking, smoking, raw-boning, canning, freezing, and dehydrating. This industry also includes the killing,

dressing, and packing of rabbits and other small game. Establishments primarily engaged in processing purchased carcasses are classified in industry 2017.

2017 Poultry and Egg Processing.—Establishments primarily engaged in the preparation of processed poultry products from purchased carcasses, including cooking, smoking, raw-boning, canning, freezing, and dehydrating, for their own account or on a contract basis for the trade; or in the drying, freezing, and breaking of eggs. The cleaning, oil treating, packing, and grading of eggs are classified in industry 5144. Establishments primarily engaged in the cutting up and resale of purchased fresh carcasses are classified in the trade industries.

202 DAIRY PRODUCTS

This group includes establishments primarily engaged in (1) manufacturing creamery butter, natural cheese, condensed and evaporated milk, ice cream and frozen desserts, and special dairy products such as processed cheese and malted milk and (2) processing (pasteurizing, homogenizing, vitaminizing, bottling) fluid milk and cream for wholesale or retail distribution. Independently operated milk receiving stations primarily engaged in the assembly and reshipment of bulk milk for the use of manufacturing or processing plants are classified in industry 5143.

2021 Creamery Butter.—Establishments primarily engaged in manufacturing creamery butter.

2022 Cheese, Natural and Processed.—Establishments primarily engaged in manufacturing all types of natural cheese (except cottage cheese—industry 2026), processed cheese, cheese foods, and cheese spreads.

2023 Condensed and Evaporated Milk.—Establishments primarily engaged in manufacturing condensed and evaporated milk and related products, including ice-cream mix and ice-milk mix made for sale as such, and dry milk products. Also included in the manufacture of nondairy-base cream substitutes and dietary supplements.

2024 Ice Cream and Frozen Desserts.—Establishments primarily engaged in manufacturing ice cream and other frozen desserts.

2026 Fluid Milk.—Establishments primarily engaged in processing (pasteurizing, homogenizing, vitaminizing, bottling) and distributing fluid milk and cream, and related products, including cottage cheese.

203 CANNED AND PRESERVED FRUITS AND VEGETABLES

2032 Canned Specialties.—Establishments primarily engaged in canning specialty products, such as baby foods, "native foods," health foods, and soups except seafood. Establishments primarily engaged in canning seafoods other than frozen are classified in industry 2091, frozen seafoods in industry 2092, and those primarily engaged in quick freezing canned specialties in industry 2038.

2033 Canned Fruits, Vegetables, Preserves, Jams, and Jellies.—Establishments primarily engaged in canning fruits and vegetables, and fruit and vegetable juices; and manufacturing catsup and similar tomato sauces, preserves, jams, and jellies. Establishments primarily engaged in canning seafoods (except frozen) are classified in industry 2091; and canned specialties, baby foods, and soups (except seafood) in industry 2032.

2034 Dried and Dehydrated Fruits, Vegetables, and Soup Mixes.—Establishments primarily engaged in sun drying or artificially dehydrating fruits and vegetables, or in manufacturing packaged soup mixes from dehydrated ingredients. Establishments primarily engaged in the grading and marketing of farm dried fruits, such as prunes and raisins, are classified in industry 5149.

2035 Pickled Fruits and Vegetables, Vegetable Sauces and Seasonings, and Salad Dressings.—Establishments primarily engaged in pickling and brining fruits and vegetables, and in manufacturing salad dressings, vegetable relishes, sauces, and seasonings. Establishments primarily engaged in manufacturing catsup and similar tomato sauces are classified in industry 2033, and those packing purchased pickles and olives in trade industries.

2037 Frozen Fruits, Fruit Juices and Vegetables.—Establishments primarily engaged in freezing and coldpacking (freezing) fruits, fruit juices, and vegetables.

2038 Frozen Specialties.—Establishments primarily engaged in freezing and coldpacking (freezing) food specialties such as frozen dinners and frozen pizza.

204 GRAIN MILL PRODUCTS

2041 Flour and Other Grain Mill Products.—Establishments primarily engaged in milling flour or meal from grain, except rice. The products of flour mills may be sold plain or in the form of prepared mixes or doughs for specific purposes. Establishments primarily engaged in manufacturing prepared flour mixes or doughs from purchased ingredients are classified in industry 2045, and rice milling in industry 2044.

2043 Cereal Breakfast Foods.—Establishments primarily engaged in manufacturing cereal breakfast foods and related preparations.

2044 Rice Milling.—Establishments primarily engaged in cleaning and polishing rice, and in manufacturing rice flour or meal. Other important products of this industry include brown rice, milled rice (including polished rice), rice polish, and rice bran.

2045 Blended and Prepared Flour.—Establishments primarily engaged in the preparation of blended flours and flour mixes or doughs from purchased flour. Establishments primarily engaged in milling flour from grain are classified in industry 2041.

2046 Wet Corn Milling.—Establishments primarily engaged in milling corn or sorghum grain (milo) by the wet process, and producing starch, sirup, oil, sugar, and byproducts such as gluten feed and meal. Establishments primarily engaged in manufacturing starch from other vegetable sources (potato, wheat, etc.) are also included. Establishments primarily engaged in manufacturing table sirups from corn sirup and other ingredients and those manufacturing starch-base dessert powders are classified in industry 2099.

2047 Dog, Cat and Other Pet Food.—Establishments primarily engaged in manufacturing dog, cat, and other pet food from cereal, meat, and other ingredients. These preparations may be canned, frozen, or dry. This industry also includes establishments slaughtering animals for pet food. Establishments primarily engaged in manufacturing feed for animals, other than pets, are classified in industry 2048.

2048 Prepared Feeds and Feed Ingredients for Animals and Fowls, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing prepared feeds and feed ingredients and adjuncts, for animals and fowls, not elsewhere classified. This industry in-

cludes poultry and livestock feed and feed ingredients, such as alfalfa meal, feed supplements, feed concentrates, and feed premixes. Establishments primarily engaged in manufacturing pet foods are classified in industry 2047.

205 BAKERY PRODUCTS

2051 Bread and Other Bakery Products, Except Cookies and Crackers.—Establishments primarily engaged in manufacturing bread, cakes, and other “perishable” bakery products. Establishments manufacturing bakery products for sale primarily for home service delivery, or through one or more non-baking retail outlets, are included in this industry. Establishments primarily engaged in producing “dry” bakery products, such as biscuits, crackers, and cookies, are classified in industry 2052. Establishments producing bakery products primarily for direct sale on the premises to household consumers are classified in Retail Trade, industry 5462.

2052 Cookies and Crackers.—Establishments primarily engaged in manufacturing cookies, crackers, pretzels, and similar “dry” bakery products. Establishments primarily engaged in producing “perishable” bakery products are classified in industry 2051.

206 SUGAR AND CONFECTIONERY PRODUCTS

2061 Cane Sugar, Except Refining Only.—Establishments primarily engaged in manufacturing raw sugar, sirup, or finished (granulated or clarified) cane sugar from sugarcane. Establishments primarily engaged in refining sugar from purchased raw cane sirup or sugar sirups are classified in industry 2062.

2062 Cane Sugar Refining.—Establishments primarily engaged in refining purchased raw cane sugar and sugar sirup.

2063 Beet Sugar.—Establishments primarily engaged in manufacturing sugar from sugar beets.

2065 Candy and Other Confectionery Products.—Establishments primarily engaged in manufacturing candy, including chocolate candy, salted nuts, other confections, and related products. Establishments primarily engaged in manufacturing solid chocolate bars are classified in industry 2066 and chewing gum in industry 2067. Establishments primarily engaged in

manufacturing confectionery for direct sale on the premises are classified in industry 5441, and those primarily engaged in shelling and roasting nuts are classified in industry 5145.

2066 Chocolate and Cocoa Products.—Establishments primarily engaged in shelling, roasting, and grinding cacao beans for the purpose of making chocolate liquor, from which cocoa powder and cocoa butter are derived, and in the further manufacture of solid chocolate bars and chocolate coatings. Establishments primarily engaged in manufacturing products, except candy, from purchased chocolate and cocoa are classified in industry 2099, and chocolate candy in industry 2065.

2067 Chewing Gum.—Establishments primarily engaged in manufacturing chewing gum or chewing gum base.

207 FATS AND OILS

2074 Cottonseed Oil Mills.—Establishments primarily engaged in manufacturing cottonseed oil and by-product cake, meal, and linters. Establishments primarily engaged in refining cottonseed oil into edible cooking oils are classified in industry 2079.

2075 Soybean Oil Mills.—Establishments primarily engaged in manufacturing soybean oil and byproduct cake and meal. Establishments primarily engaged in refining soybean oil into edible cooking oils are classified in industry 2079.

2076 Vegetable Oil Mills, Except Corn, Cottonseed, and Soybean.—Establishments primarily engaged in manufacturing vegetable oils and byproduct cake and meal, except corn, cottonseed, and soybean. Establishments primarily engaged in manufacturing corn oil and its byproducts are classified in industry 2046, those which are refining vegetable oils into edible cooking oils are classified in industry 2079, and those refining these oils for medicinal purposes in industry 2833.

2077 Animal and Marine Fats and Oils.—Establishments primarily engaged in manufacturing animal oils, including fish oil and other marine animal oils and fish and animal meal; and those rendering inedible grease and tallow from animal fat, bones, and meat scraps. Establishments primarily engaged in manufacturing lard and edible tallow and stearin are classified in group 201; those refining marine animal oils for medicinal purposes in industry 2833; and those manufacturing fatty acids in industry 2899.

2079 Shortening, Table Oils, Margarine and Other Edible Fats and Oils, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing shortening, table oils, margarine, and other edible fats and oils, not elsewhere classified, by further processing of purchased animal and vegetable oils. Establishments primarily engaged in producing corn oil are classified in industry 2046.

208 BEVERAGES

2082 Malt Beverages.—Establishments primarily engaged in manufacturing all kinds of malt beverages. Establishments primarily engaged in bottling purchased malt beverages are classified in industry 5181.

2083 Malt.—Establishments primarily engaged in manufacturing malt or malt byproducts from barley or other grains.

2084 Wines, Brandy, and Brandy Spirits.—Establishments primarily engaged in manufacturing wines, brandy, and brandy spirits. This industry also includes bonded storerooms which are engaged in blending wines. Establishments primarily bottling purchased wines, brandy, and brandy spirits, but which do not manufacture wines and brandy, are classified in industry 5182.

2085 Distilled, Rectified, and Blended Liquors.—Establishments primarily engaged in manufacturing alcoholic liquors by distillation and rectification and in manufacturing cordials and alcoholic cocktails by blending processes or by mixing liquors and other ingredients. Establishments primarily engaged in manufacturing industrial alcohol are classified in industry 2869, and those only bottling purchased liquors in industry 5182.

2086 Bottled and Canned Soft Drinks and Carbonated Waters.—Establishments primarily engaged in manufacturing soft drinks (nonalcoholic beverages) and carbonated waters. Establishments primarily engaged in manufacturing fruit and vegetable juices are classified in group 203, fruit sirups for flavoring in industry 2087, and cider in industry 2099. Establishments primarily engaged in bottling natural spring waters are classified in industry 5149.

2087 Flavoring Extracts and Flavoring Sirups, Not Elsewhere Classified.—Establishments primarily engaged

in manufacturing flavoring extracts, sirups, and fruit juices, not elsewhere classified, for soda fountain use or for the manufacture of soft drinks, and colors for bakers' and confectioners' use. Establishments primarily engaged in manufacturing chocolate sirup are classified in industry 2066 if from cacao beans and in industry 2099 if from purchased chocolate.

209 MISCELLANEOUS FOOD PREPARATIONS AND KINDRED PRODUCTS

2091 Canned and Cured Fish and Seafoods.—Establishments primarily engaged in cooking and canning fish, shrimp, oysters, clams, crabs, and other seafoods, including soups; and those engaged in smoking, salting, drying, or otherwise curing fish for the trade. Establishments primarily engaged in shucking and packing fresh oysters in nonsealed containers, or in freezing and packaging fresh fish, are classified in industry 2092.

2092 Fresh or Frozen Packaged Fish and Seafoods.—Establishments primarily engaged in preparing fresh and raw or cooked frozen packaged fish and other seafood, including soups. This industry also includes establishments primarily engaged in the shucking and packing of fresh oysters in nonsealed containers.

2095 Roasted Coffee.—Establishments primarily engaged in roasting coffee and in manufacturing coffee concentrates and extracts in powdered, liquid, or frozen form, including freeze-dried.

2097 Manufactured Ice.—Establishments primarily engaged in manufacturing ice for sale. Ice plants operated by public utility companies are included in this industry when separate reports are available. When separate reports are not available, they should be classified in SIC Major Group 49. Establishments primarily engaged in manufacturing dry ice are classified in industry 2813.

2098 Macaroni, Spaghetti, Vermicelli, and Noodles.—Establishments primarily engaged in manufacturing dry macaroni, spaghetti, vermicelli, and noodles. Establishments primarily engaged in manufacturing canned macaroni, spaghetti, etc., are classified in industry 2032.

- 2099 Food Preparations, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing prepared foods and miscellaneous food specialties, not elsewhere classified, such as baking powder, yeast, and other leavening compounds; chocolate and cocoa products, except confectionery, made from purchased materials; peanut butter; packaged tea including instant; ground spices; potato, corn, and other chips; and vinegar and cider.

21 TOBACCO MANUFACTURES

This major group includes establishments engaged in manufacturing cigarettes, cigars, smoking and chewing tobacco, and snuff, and in stemming and redrying tobacco. The manufacture of insecticides from tobacco byproducts is included in SIC Major Group 28.

211 CIGARETTES

- 2111 Cigarettes.**—Establishments engaged in manufacturing cigarettes.

212 CIGARS

- 2121 Cigars.**—Establishments engaged in manufacturing cigars. Retail stores producing cigars are classified in trade industries.

213 TOBACCO (CHEWING AND SMOKING) AND SNUFF

- 2131 Tobacco (Chewing and Smoking) and Snuff.**—Establishments engaged in manufacturing smoking and chewing tobaccos, and snuff.

214 TOBACCO STEMMING AND REDRYING

- 2141 Tobacco Stemming and Redrying.**—Establishments primarily engaged in the stemming and redrying of tobacco. Establishments which sell leaf tobacco as merchant wholesalers, agents, or brokers, and which may be also engaged in stemming tobacco, are classified in SIC Major Group 51. Leaf tobacco warehouses which may be also engaged in stemming tobacco are classified in SIC Major Group 42.

22 TEXTILE MILL PRODUCTS

This major group includes establishments engaged in performing any of the following operations: (1) Preparation of fiber and subsequent manufacturing yarn, thread,

braids, twine, and cordage; (2) manufacturing broadwoven fabric, narrow woven fabric, knit fabric, and carpets and rugs from yarn; (3) dyeing and finishing fiber, yarn, fabric, and knit apparel; (4) coating, waterproofing, or otherwise treating fabric; (5) the integrated manufacture of knit apparel and other finished articles from yarn; and (6) the manufacture of felt goods, lace goods, nonwoven fabrics, and miscellaneous textiles.

This classification makes no distinction between the two types of organizations which operate in the textile industry: (1) The "integrated" mill which purchases materials, produces textiles and related articles within the establishment, and sells the finished products; and (2) the "contract" or "commission" mill which processes materials owned by others. Converters or other nonmanufacturing establishments which assign materials to contract mills for processing (other than knitting) are classified in nonmanufacturing industries; establishments which assign yarns to outside contractors or commission knitters for the production of knit products are classified in group 225.

221 BROADWOVEN FABRIC MILLS, COTTON

- 2211 Broadwoven Fabric Mills, Cotton.**—Establishments primarily engaged in weaving fabrics over 12 inches in width, wholly or chiefly by weight of cotton. Establishments primarily engaged in weaving cotton carpets and rugs are classified in industry 2271; those tufting carpets and rugs in industry 2272; those making tire cord and fabric in industry 2296; and finishers of cotton broadwoven fabrics in industry 2261.

222 BROAD WOVEN FABRIC MILLS, MANMADE FIBER AND SILK

- 2221 Broadwoven Fabric Mills, Manmade Fiber and Silk.**—Establishments primarily engaged in weaving fabrics over 12 inches in width, wholly or chiefly by weight of silk and manmade fibers, including glass. Establishments primarily engaged in weaving carpets and rugs from these fibers are classified in industry 2271; those tufting carpets and rugs from these fibers in industry 2272; those making tire cord and fabric in industry 2296; and finishers of manmade fiber and silk broadwoven goods in industry 2262.

223 BROADWOVEN FABRIC MILLS, WOOL (INCLUDING DYEING AND FINISHING)

- 2231 Broadwoven Fabric Mills, Wool (Including Dyeing and Finishing).**—Establishments primarily engaged in

weaving fabrics over 12 inches in width, wholly or chiefly by weight of wool, mohair, or similar animal fibers; those dyeing and finishing all woven wool fabrics or dyeing wool, tops, or yarn; and those shrinking and sponging wool goods for the trade. Establishments primarily engaged in weaving wool carpets and rugs are classified in industry 2271, and those tufting wool carpets and rugs in industry 2272.

224 NARROW FABRICS AND OTHER SMALLWARES MILLS: COTTON, WOOL, SILK, AND MANMADE FIBER

2241 Narrow Fabrics and Other Smallwares Mills: Cotton, Wool, Silk, and Manmade Fiber.—Establishments primarily engaged in weaving or braiding fabrics 12 inches or narrower in width of cotton, wool, silk, and manmade fibers, including glass fibers. Establishments primarily engaged in producing fabric-covered elastic yarn or thread are also included in this industry.

225 KNITTING MILLS

This group includes three types of organizations which operate in the knitting mill industry: (1) The "integrated" mill which purchases materials, produces textiles and related articles within the establishment, and sells the finished products; (2) the "contract" or "commission" mill which processes materials owned by others; and (3) establishments commonly known as jobbers or converters of knit goods which perform the entrepreneurial functions of a manufacturing company, such as buying the raw material, designing and preparing samples, and assigning yarns to others for knitting products on their account.

2251 Women's Full Length and Knee Length Hosiery.—Establishments primarily engaged in knitting, dyeing, or finishing women's and misses' full length and knee length hosiery, both seamless and full-fashioned, and panty hose.

2252 Hosiery, Except Women's Full Length and Knee Length Hosiery.—Establishments primarily engaged in knitting, dyeing, or finishing hosiery except women's and misses' full length and knee length seamless and full-fashioned hosiery and panty hose.

2253 Knit Outerwear Mills.—Establishments primarily engaged in knitting outerwear from yarn or in

manufacturing outerwear from knit fabric produced in the same establishment. Establishments primarily engaged in handknitting outerwear for the trade are included in this industry. Establishments primarily engaged in knitting gloves and mittens are classified in industry 2259, and those manufacturing outerwear from purchased knit fabric in SIC Major Group 23.

2254 Knit Underwear Mills.—Establishments primarily engaged in knitting underwear and nightwear from yarn or in manufacturing underwear and nightwear from knit fabric produced in the same establishment. Establishments primarily engaged in manufacturing underwear and nightwear from purchased knit fabric are classified in SIC Major Group 23.

2257 Circular Knit Fabric Mills.—Establishments primarily engaged in knitting circular (tubular) fabric or in dyeing or finishing circular (tubular) knit fabric. Establishments primarily engaged in knitting, dyeing, or finishing warp fabric are classified in industry 2258.

2258 Warp Knit Fabric Mills.—Establishments primarily engaged in knitting warp (flat) fabric or in dyeing or finishing warp (flat) knit fabric. Establishments primarily engaged in knitting, dyeing, or finishing circular fabric are classified in industry 2257.

2259 Knitting Mills, Not Elsewhere Classified.—Establishments primarily engaged in knitting gloves and other articles not elsewhere classified. Establishments primarily engaged in manufacturing woven or knit fabric gloves and mittens from purchased fabrics are classified in industry 2381.

226 DYEING AND FINISHING TEXTILES, EXCEPT WOOL FABRICS AND KNIT GOODS

2261 Finishers of Broadwoven Fabrics of Cotton.—Establishments primarily engaged in finishing purchased cotton broadwoven fabrics or finishing such fabrics on a commission basis. These finishing operations include bleaching, dyeing, printing (roller, screen, flock, plisse), and other mechanical finishing such as preshrinking, calendering, and napping. This industry also includes the shrinking and sponging of cloth for the trade, and chemical finishing for water repellency, fire resistance, and mildew proofing. Establishments primarily engaged in finishing wool broadwoven fabrics are classified in industry 2231; knit goods in group 225; and those coating or impregnating fabrics in industry 2295.

2262 Finishers of Broadwoven Fabrics of Manmade Fiber and Silk.—Establishments primarily engaged in finishing purchased manmade fiber and silk broadwoven fabrics or finishing such fabrics on a commission basis. These finishing operations include bleaching, dyeing, printing (roller, screen, flock, plisse), and other mechanical finishing such as preshrinking, calendering, and napping. Establishments primarily engaged in finishing wool broadwoven fabrics are classified in industry 2231; knit goods in group 225; and those coating or impregnating fabrics in industry 2295.

2269 Finishers of Textiles, Not Elsewhere Classified.—Establishments primarily engaged in dyeing and finishing textiles, not elsewhere classified, such as bleaching, dyeing, printing, and finishing of raw stock, yarn, braided goods, and narrow fabrics, except wool and knit fabrics. These establishments perform finishing operations on purchased textiles or on a commission basis.

227 FLOOR COVERING MILLS

2271 Woven Carpets and Rugs.—Establishments primarily engaged in weaving carpets and rugs from any textile yarn. Important products of this industry include Axminster, Wilton, velvet, and similar woven carpets and rugs; and woven automobile and aircraft floor coverings.

2272 Tufted Carpets and Rugs.—Establishments primarily engaged in tufting carpets and rugs from any textile fiber. Important products of this industry include tufted carpets, rugs, scatter rugs, and bathmats and bathmat sets except terry woven. Finishers of these products are also included in this industry.

2279 Carpets and Rugs, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing rugs, carpets, art squares, floor mattings, needle punch carpeting, and doormats and mattings from twisted paper, grasses, reeds, coir, sisal, jute, or rags. Establishments primarily engaged in manufacturing hard-surface floor coverings, except rubber and cork, are classified in industry 3996.

228 YARN AND THREAD MILLS

2281 Yarn Spinning Mills: Cotton, Manmade Fibers and Silk.—Establishments primarily engaged in spinning

yarn wholly or chiefly by weight of cotton, manmade fibers, or silk. Establishments primarily engaged in dyeing or finishing purchased yarns or finishing yarns on a commission basis are classified in industry 2269.

2282 Yarn Texturizing, Throwing, Twisting, and Winding Mills: Cotton, Manmade Fibers and Silk.—Establishments primarily engaged in texturizing, throwing, twisting, winding or spooling yarn wholly or chiefly by weight of cotton, manmade fibers, or silk. Establishments primarily engaged in dyeing or finishing purchased yarns or finishing yarns on a commission basis are classified in industry 2269.

2283 Yarn Mills, Wool, Including Carpet and Rug Yarn.—Establishments primarily engaged in spinning, twisting, winding, or spooling yarn (including carpet and rug yarn) wholly or chiefly by weight of wool, mohair, or similar animal fibers. Establishments primarily engaged in dyeing or finishing purchased wool yarn or finishing wool yarn on a commission basis are classified in industry 2231.

2284 Thread Mills.—Establishments primarily engaged in manufacturing thread from natural or manmade fiber except flax (industry 2299) and wool (industry 2283). Important products of this industry include sewing, crochet, darning, embroidery, tatting, hand-knitting, and other handicraft threads.

229 MISCELLANEOUS TEXTILE GOODS

2291 Felt Goods, Except Woven Felts and Hats.—Establishments primarily engaged in manufacturing pressed felt, regardless of fiber, by means of heat, moisture, and pressure; and those making punched felt for rugs, cushions, and other products from hair, jute, wool, or other fibers by the needle loom process. Establishments primarily engaged in manufacturing woven wool felts and wool haircloth are classified in industry 2231, those manufacturing felt hats in group 235, and those manufacturing needle punch carpeting in industry 2279.

2292 Lace Goods.—Establishments primarily engaged in manufacturing lace machine products, and those primarily engaged in dyeing and finishing lace goods. Establishments primarily engaged in manufacturing Schiffli machine embroideries are classified in industry 2397. Establishments primarily engaged in manufacturing knitted lace and netting are classified in industry 2258.

2293 Paddings and Upholstery Filling.—Establishments primarily engaged in manufacturing batting, padding, wadding, and filling for upholstery, pillows, quilts, and apparel, from curled hair, cotton-mill waste, moss, hemp tow, flax tow, kapok, and related materials. Establishments primarily engaged in manufacturing wood excelsior pads and wrappers are classified in industry 2429.

2294 Processed Waste and Recovered Fibers and Flock.—Establishments primarily engaged in processing textile mill waste for spinning, padding, batting, or other uses; in recovering textile fibers from clippings and rags; in cutting flock from waste, recovered fibers, or new fiber stock; and in manufacturing oakum and twisted jute packing. Establishments primarily engaged in cleaning and sorting wiping rags or waste are classified in industry 5093.

2295 Coated Fabrics, Not Rubberized.—Establishments primarily engaged in manufacturing coated and impregnated textiles and in the special finishing of textiles, such as varnishing and waxing. Establishments primarily engaged in rubberizing purchased fabrics are classified in industry 3069, and those primarily engaged in dyeing and finishing textiles in group 226.

2296 Tire Cord and Fabric.—Establishments primarily engaged in manufacturing cord and fabric for use in reinforcing rubber tires, industrial belting, fuel cells, and similar uses.

2297 Nonwoven Fabrics.—Establishments primarily engaged in manufacturing nonwoven fabrics (by bonding and/or interlocking of fibers) by mechanical, chemical, thermal, or solvent means or by combinations thereof. Establishments primarily engaged in producing fabrics by the wool felting process are classified in other industries in this major group.

2298 Cordage and Twine.—Establishments primarily engaged in manufacturing rope, cable, cordage, twine, and related products from abaca (Manila), sisal, henequen, hemp, cotton, paper, jute, flax, manmade fibers including glass, and other fibers.

2299 Textile Goods, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing linen goods, jute goods except felt, and other textile goods not elsewhere classified. Establishments primarily engaged in processing textile fibers to

prepare them for spinning, such as wool scouring and carbonizing and combing and converting tow to top, are also classified here. Establishments primarily engaged in manufacturing woven felts are classified in industry 2231, nonwoven felts in industry 2291, nonwoven textiles in industry 2297, and cordage and twine in industry 2298.

23

APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS AND SIMILAR MATERIALS

This major group, known as the cutting-up and needle trades, includes establishments producing clothing and fabricating products by cutting and sewing purchased woven or knit textile fabrics and related materials such as leather, rubberized fabrics, plastics, and furs.

Included in the apparel industries are three types of establishments: (1) The "regular" or inside factories, (2) contract factories, and (3) apparel jobbers. The regular factories perform all of the usual manufacturing functions within their own plant; the contract factories manufacture apparel from materials owned by others; and apparel jobbers perform the entrepreneurial functions of a manufacturing company, such as buying raw materials, designing and preparing samples, arranging for the manufacture of the garments from their materials, and selling of the finished apparel.

Custom tailors and dressmakers not operating on a factory basis are classified in industry 5699; establishments which purchase and resell finished garments but do not perform the functions of the apparel jobbers are classified in group 513.

231 MEN'S, YOUTHS', AND BOYS' SUITS, COATS, AND OVERCOATS

2311 Men's, Youths', and Boys' Suits, Coats, and Overcoats.—Establishments primarily engaged in manufacturing men's, youths', and boys' tailored suits, coats, and overcoats. Establishments primarily engaged in manufacturing uniforms (except athletic uniforms) are also included in this industry. Establishments primarily engaged in manufacturing men's work garments are classified in industry 2328.

232 MEN'S, YOUTHS', AND BOYS' FURNISHINGS, WORK CLOTHING, AND ALLIED GARMENTS

2321 Men's, Youths', and Boys' Shirts (Except Work Shirts) and Nightwear.—Establishments primarily

engaged in manufacturing men's, youths', and boys' shirts (including polo and sports shirts) and nightwear, cut and sewed from purchased woven or knit fabric. Establishments primarily engaged in manufacturing work shirts are classified in industry 2328. Knitting mills primarily engaged in manufacturing nightwear are classified in industry 2254, and outerwear in industry 2253.

- 2322 Men's, Youths', and Boys' Underwear.**—Establishments primarily engaged in manufacturing men's, youths', and boys' underwear, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing underwear are classified in industry 2254.
- 2323 Men's, Youths', and Boys' Neckwear.**—Establishments primarily engaged in manufacturing men's, youths', and boys' neckties, scarfs, and mufflers, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing neckties, scarfs, and mufflers are classified in industry 2253.
- 2327 Men's, Youths', and Boys' Separate Trousers.**—Establishments primarily engaged in manufacturing men's, youths', and boys' separate trousers and slacks. Establishments primarily engaged in manufacturing complete suits are classified in industry 2311, and work pants and jeans in industry 2328.
- 2328 Men's, Youths', and Boys' Work Clothing.**—Establishments primarily engaged in manufacturing men's, youths', and boys' work shirts, pants, jeans, and other work clothing and washable service apparel.
- 2329 Men's, Youths', and Boys' Clothing, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing men's, youths', and boys' clothing not elsewhere classified. Establishments primarily engaged in manufacturing polo and sport shirts from purchased woven or knit materials are classified in industry 2321; separate trousers in industry 2327; work clothing in industry 2328; and leather and sheep lined garments in industry 2386. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

233 WOMEN'S, MISSES', AND JUNIORS' OUTERWEAR

- 2331 Women's, Misses', and Juniors' Blouses, Waists, and Shirts.**—Establishments primarily engaged in manu-

facturing women's, misses', and juniors' blouses, waists, and shirts. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253. Establishments primarily engaged in manufacturing girls', children's, and infants' blouses, waists, and shirts are classified in industry 2361.

- 2335 Women's, Misses', and Juniors' Dresses.**—Establishments primarily engaged in manufacturing women's, misses', and juniors' dresses, including ensemble dresses and pants dresses, whether sold by the piece or by the dozen. Establishments primarily engaged in manufacturing girls', children's, and infants' dresses are classified in industry 2361.
- 2337 Women's, Misses', and Juniors' Suits, Skirts, and Coats.**—Establishments primarily engaged in manufacturing women's, misses', and juniors' suits, pantsuits, skirts, and coats except furcoats and raincoats. These garments are generally tailored and usually lined. Establishments primarily engaged in manufacturing fur garments are classified in industry 2371, raincoats in industry 2385, and knitting mills primarily engaged in manufacturing knit outerwear in industry 2253.
- 2339 Women's, Misses', and Juniors' Outerwear, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing women's, misses', and juniors' outerwear, not elsewhere classified, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

234 WOMEN'S, MISSES', CHILDREN'S, AND INFANTS' UNDERGARMENTS

- 2341 Women's, Misses', Children's, and Infants' Underwear and Nightwear.**—Establishments primarily engaged in manufacturing women's, misses', children's, and infants' underwear and nightwear, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing underwear and nightwear are classified in industry 2254.
- 2342 Brassieres, Girdles, and Allied Garments.**—Establishments primarily engaged in manufacturing brassieres, girdles, corsets, corset accessories, and allied garments. Establishments primarily engaged in manufacturing surgical and orthopedic appliances are classified in industry 3842.

235 HATS, CAPS, AND MILLINERY

2351 Millinery.—Establishments primarily engaged in manufacturing women's, misses', children's, and infants' millinery. Establishments primarily engaged in manufacturing millinery braid and trimmings are classified in industry 2396.

2352 Hats and Caps, Except Millinery.—Establishments primarily engaged in manufacturing hats and caps (except millinery) and all hat bodies. Knitting mills primarily engaged in manufacturing caps are classified in industry 2253.

236 GIRLS', CHILDREN'S, AND INFANTS' OUTERWEAR

2361 Girls', Children's, and Infants' Dresses, Blouses, Waists, and Shirts.—Establishments primarily engaged in manufacturing girls', children's, and infants' dresses, blouses, waists, and shirts, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

2363 Girls', Children's, and Infants' Coats and Suits.—Establishments primarily engaged in manufacturing girls', children's, and infants' coats and suits, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

2369 Girls', Children's, and Infants' Outerwear, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing girls', children's, and infants' outerwear, not elsewhere classified, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing outerwear are classified in industry 2253.

237 FUR GOODS

2371 Fur Goods.—Establishments primarily engaged in manufacturing furcoats, and other garments, accessories, and trimmings made of fur. Establishments primarily engaged in manufacturing sheep lined clothing are classified in industry 2386, and those engaged in dyeing and dressing of furs in industry 3999.

238 MISCELLANEOUS APPAREL AND ACCESSORIES

2381 Dress and Work Gloves, Except Knit and All-Leather.—Establishments primarily engaged in manufacturing dress, semidress, and work gloves and mittens, cut and sewed from purchased woven or knit fabric, or these materials combined with leather or plastic. Knitting mills primarily engaged in manufacturing gloves and mittens are classified in industry 2259, establishments primarily engaged in manufacturing leather gloves in industry 3151, those manufacturing rubber gloves in industry 3069, and plastic gloves in industry 3079.

2384 Robes and Dressing Gowns.—Establishments primarily engaged in manufacturing men's and women's robes and dressing gowns.

2385 Raincoats and Other Waterproof Outer Garments.—Establishments primarily engaged in manufacturing raincoats from purchased rubberized fabrics and other waterproof outer garments made from such material as pliofilm and cellophane. Establishments primarily engaged in manufacturing oiled fabric work garments are classified in industry 2328, and those manufacturing vulcanized rubber garments and garments made from rubberized fabrics produced in the same establishment are classified in industry 3069.

2386 Leather and Sheep Lined Clothing.—Establishments primarily engaged in manufacturing leather and sheep lined garments. Establishments primarily engaged in manufacturing leather gloves and mittens are classified in industry 3151, and fur garments in industry 2371.

2387 Apparel Belts.—Establishments primarily engaged in manufacturing men's and women's apparel belts, regardless of material.

2389 Apparel and Accessories, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing suspenders, garters, handkerchiefs, and other apparel, not elsewhere classified, such as academic caps and gowns, vestments, and theatrical costumes.

239 MISCELLANEOUS FABRICATED TEXTILE PRODUCTS

2391 Curtains and Draperies.—Establishments primarily engaged in manufacturing curtains and draperies from

purchased materials. Establishments primarily engaged in manufacturing lace curtains on lace machines are classified in industry 2292.

2392 Housefurnishings, Except Curtains and Draperies.—Establishments primarily engaged in manufacturing housefurnishings, such as blankets, bedspreads, sheets, tablecloths, and towels from purchased materials. Establishments primarily engaged in manufacturing curtains and draperies are classified in industry 2391. Establishments producing housefurnishings primarily of fabric woven at the same establishment are classified according to fiber in industries 2211, 2221, or 2231.

2393 Textile Bags.—Establishments primarily engaged in manufacturing shipping and other industrial bags from purchased fabric. Establishments primarily engaged in manufacturing plastic bags are classified in industry 2643; laundry, wardrobe, shoe, and other textile housefurnishing bags in industry 2392; and luggage in industry 3161.

2394 Canvas and Related Products.—Establishments primarily engaged in manufacturing awnings, tents, and related products from purchased fabric. Establishments primarily engaged in manufacturing canvas bags are classified in industry 2393.

2395 Pleating, Decorative and Novelty Stitching, and Tucking for the Trade.—Establishments primarily engaged in pleating, decorative and novelty stitching, and tucking for the trade. Establishments primarily engaged in performing similar services for individuals are classified in service industries. Establishments primarily engaged in manufacturing trimmings are classified in industry 2396.

2396 Automotive Trimmings, Apparel Findings, and Related Products.—Establishments primarily engaged in manufacturing automotive trimmings and apparel findings and related products.

2397 Schiffli Machine Embroideries.—Establishments primarily engaged in manufacturing Schiffli machine embroideries.

2399 Fabricated Textile Products, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing fabricated textile products not elsewhere classified.

24 LUMBER AND WOOD PRODUCTS, EXCEPT FURNITURE

This major group includes logging camps engaged in cutting timber and pulpwood; merchant sawmills, lath mills, shingle mills, cooperage stock mills, planing mills, and plywood mills and veneer mills engaged in producing lumber and wood basic materials; and establishments engaged in manufacturing finished articles made entirely or mainly of wood or wood substitutes. Certain types of establishments producing wood products are classified elsewhere. For example, furniture and office and store fixtures are classified in SIC Major Group 25; musical instruments, toys, playground equipment, and caskets in SIC Major Group 39. Woodworking in connection with construction in the nature of reconditioning and repair or performed to individual order, is classified in non-manufacturing industries.

241 LOGGING CAMPS AND LOGGING CONTRACTORS

2411 Logging Camps and Logging Contractors.—Logging camps and logging contractors primarily engaged in cutting timber and in producing rough, round, hewn, or riven primary forest or wood raw materials. Independent contractors engaged in estimating or trucking timber, but who perform no cutting operations, are classified in nonmanufacturing industries. Logging and woods operations conducted in combination with sawmills, pulpmills, or other converting establishments, and not separately reported, are classified in their respective industry groups; namely, with sawmills in SIC group 242, veneer and plywood mills in SIC group 243, pulpmills in SIC Major Group 26, and charcoal and wood distillation plants in SIC group 286. Establishments primarily engaged in the collection of bark, sap, gum, and other forest byproducts are classified in SIC Major Group 08.

242 SAWMILLS AND PLANING MILLS

2421 Sawmills and Planing Mills, General.—Establishments primarily engaged in sawing rough lumber and timber from logs and bolts, or resawing cants and flitches into lumber, including box lumber and softwood cut stock; planing mills combined with sawmills; and separately operated planing mills which are engaged primarily in producing surfaced

lumber and standard workings or patterns of lumber. This industry includes establishments primarily engaged in sawing lath and railroad ties and in producing tobacco hogshead stock, wood chips, and snow fence lath. Establishments primarily engaged in manufacturing box shook or boxes are classified in SIC group 244; sash, doors, wood molding, window and door frames, and other fabricated millwork in SIC group 243; and hardwood dimension and flooring in industry 2426. Logging camps combined with sawmills, when not separately reported, are included in this industry.

- 2426 Hardwood Dimension and Flooring Mills.**—Establishments primarily engaged in manufacturing hardwood dimension lumber and workings therefrom; other hardwood dimension, semifabricated or ready for assembly; hardwood flooring; and wood frames for household furniture. Establishments primarily engaged in manufacturing stairwork, molding, and trim are classified in industry 2431; and those manufacturing textile machinery bobbins, picker sticks, and shuttles in industry 3552.
- 2429 Special Product Sawmills, Not Elsewhere Classified.**—Mills primarily engaged in manufacturing excelsior, wood shingles, and cooperage stock; and in sawing special products not elsewhere classified.

243 MILLWORK, VENEER, PLYWOOD, AND STRUCTURAL WOOD MEMBERS

- 2431 Millwork.**—Establishments primarily engaged in manufacturing fabricated millwork. Planing mills primarily engaged in producing millwork are included in this industry, but planing mills primarily producing standard workings or patterns of lumber are classified in industry 2421. Establishments primarily manufacturing wood kitchen cabinets and bathroom vanities are classified in industry 2434.
- 2434 Wood Kitchen Cabinets.**—Establishments primarily engaged in manufacturing wood kitchen cabinets and wood bathroom vanities.
- 2435 Hardwood Veneer and Plywood.**—Establishments primarily engaged in producing commercial hardwood veneer, either face or technical, and those primarily engaged in manufacturing commercial plywood or prefinished hardwood plywood. This includes nonwood backed or faced veneer and nonwood faced plywood from veneer produced in the same estab-

lishment or from purchased veneer. Establishments primarily engaged in the production of veneer which is used in the same establishment for the manufacture of end products such as fruit and vegetable baskets and wood boxes are classified in industries 2441 and 2449.

- 2436 Softwood Veneer and Plywood.**—Establishments primarily engaged in producing commercial softwood veneer and plywood from veneer produced in the same establishment or from purchased veneer. Establishments primarily engaged in producing commercial hardwood veneer and plywood are classified in industry 2435. Establishments primarily engaged in the production of veneer which is used in the same establishment for the manufacture of end products such as fruit and vegetable baskets and wood boxes are classified in industries 2441 and 2449.
- 2439 Structural Wood Members, Not Elsewhere Classified.**—Establishments primarily engaged in producing laminated or fabricated trusses, arches, and other structural members of lumber. Establishments primarily engaged in fabrication on the site of construction are classified in Division C, Construction. Establishments primarily engaged in producing prefabricated wooden buildings, sections, and panels are classified in industry 2452.

244 WOOD CONTAINERS

- 2441 Nailed and Lock Corner Wood Boxes and Shook.**—Establishments primarily engaged in manufacturing nailed and lock corner wood boxes (lumber or plywood) and those which also may produce shook for nailed and lock corner boxes.
- 2448 Wood Pallets and Skids.**—Establishments primarily engaged in manufacturing wood and wood-metal combination pallets and skids.
- 2449 Wood Containers, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing wood containers, not elsewhere classified, such as cooperage, wirebound boxes and crates, and other veneer and plywood containers. Establishments primarily engaged in manufacturing tobacco hogshead stock are classified in industry 2421, and those manufacturing cooperage stock in industry 2429.

245 WOOD BUILDINGS AND MOBILE HOMES

2451 Mobile Homes.—Establishments primarily engaged in manufacturing mobile homes. These mobile homes are generally over 35 feet long, at least 8 feet wide, do not have facilities for storage of water or waste, and are equipped with wheels. These products may also have nonresidential uses such as classrooms or offices. Trailers that are generally 35 feet long or less, 8 feet wide or less, and with self-contained facilities are classified in industry 3792. Portable buildings not equipped with wheels are classified in industry 2452.

2452 Prefabricated Wood Buildings and Components.—Establishments primarily engaged in manufacturing prefabricated wood buildings, sections, and panels. Establishments primarily engaged in fabricating buildings on the site of construction are classified in Division C, Construction.

249 MISCELLANEOUS WOOD PRODUCTS

2491 Wood Preserving.—Establishments primarily engaged in treating wood, sawed or planed in other establishments, with creosote or other preservatives to prevent decay and to protect against fire and insects. This industry also includes the cutting, treating, and selling of poles, posts, and piling, but establishments primarily engaged in manufacturing other wood products, which they may also treat with preservatives, are not included.

2492 Particleboard.—Establishments primarily engaged in manufacturing wood panel products from small wood particles. This includes preparation of small particles of wood, drying, mixing with a synthetic resin binder, and compressing. Pressing may take place in hydraulic presses with heated platens or by extrusion.

2499 Wood Products, Not Elsewhere Classified.—Establishments primarily engaged in turning and shaping wood and manufacturing miscellaneous wood products, not elsewhere classified, from rattan, reed, splint, straw, veneer, veneer strips, wicker, and willow. This industry also includes establishments manufacturing lasts and related products, cork products, hardboard, and wood or metal mirror and picture frames. Establishments primarily engaged in manufacturing particleboard are classified in industry 2492, and those manufacturing pallets and skids in industry 2448.

25**FURNITURE AND FIXTURES**

This major group includes establishments engaged in manufacturing household, office, public building, and restaurant furniture; and office and store fixtures. Establishments primarily engaged in the production of millwork are classified in industry 2431; wood kitchen cabinets in industry 2434; cut stone and concrete furniture in SIC Major Group 32; laboratory and hospital furniture in SIC Major Group 38; beauty and barber shop furniture in SIC Major Group 39; and woodworking to individual order or in the nature of reconditioning and repair in nonmanufacturing industries.

251 HOUSEHOLD FURNITURE

2511 Wood Household Furniture, Except Upholstered.—Establishments primarily engaged in manufacturing wood household furniture commonly used in dwellings. This industry also includes establishments manufacturing camp furniture. Establishments primarily engaged in manufacturing upholstered furniture are classified in industry 2512; reed and rattan furniture in industry 2519; television, radio, phonograph, and sewing machine cabinets in industry 2517; and kitchen cabinets and bathroom vanities in industry 2434.

2512 Wood Household Furniture, Upholstered.—Establishments primarily engaged in manufacturing upholstered furniture on wood frames. Shops primarily engaged in reupholstering furniture, or upholstering frames to individual order, are classified in nonmanufacturing industries. Establishments primarily engaged in manufacturing dual-purpose sleep furniture, such as studio couches, sofa beds, and chair beds, are classified in industry 2515, regardless of the material used in the frame. Establishments primarily engaged in manufacturing wood frames for upholstered furniture are classified in industry 2426.

2514 Metal Household Furniture.—Establishments primarily engaged in manufacturing padded or plain metal household furniture of a type commonly used in dwellings. Establishments primarily engaged in manufacturing dual-purpose sleep furniture, such as studio couches, sofa beds, and chair beds, are classified in industry 2515, regardless of the material used in the frame.

2515 Mattresses and Bedsprings.—Establishments primarily engaged in manufacturing innerspring mattresses, box spring mattresses, and noninnerspring mattresses containing felt, form rubber, urethane, hair, or any other filling material; and assembled wire springs (fabric, coil, or box) for use on beds, couches, and cots. This industry also includes establishments primarily engaged in manufacturing dual-purpose sleep furniture, such as studio couches, sofa beds, and chair beds, regardless of the material used in the frame. Establishments primarily engaged in manufacturing automobile seats and backs are classified in industry 2531; individual wire springs in industry 3495; and paddings and upholstery filling in industry 2293.

2517 Wood Television, Radio, Phonograph, and Sewing Machine Cabinets.—Establishments primarily engaged in manufacturing wood cabinets for radios, television sets, phonographs, and sewing machines.

2519 Household Furniture, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing reed, rattan, and other wicker furniture, plastics and fiberglass household furniture and cabinets, and household furniture not elsewhere classified.

252 OFFICE FURNITURE

2521 Wood Office Furniture.—Establishments primarily engaged in manufacturing wood office furniture, whether padded, upholstered, or plain.

2522 Metal Office Furniture.—Establishments primarily engaged in manufacturing metal office furniture, whether padded or plain. Establishments primarily engaged in manufacturing safes and vaults are classified in industry 3499.

253 PUBLIC BUILDING AND RELATED FURNITURE

2531 Public Building and Related Furniture.—Establishments primarily engaged in manufacturing furniture for schools, theaters, assembly halls, churches, and libraries. Establishments primarily engaged in manufacturing seats for public conveyances, as well as seats for automobiles and aircraft, are included in this industry. Establishments primarily engaged in manufacturing stone furniture are classified in industry 3281, and concrete furniture in industry 3272.

254 PARTITIONS, SHELVING, LOCKERS, AND OFFICE AND STORE FIXTURES

2541 Wood Partitions, Shelving, Lockers, and Office and Store Fixtures.—Establishments primarily engaged in manufacturing wood shelving, lockers, office and store fixtures, prefabricated partitions, plastic laminated fixture tops, and related fabricated products. Establishments primarily engaged in manufacturing refrigerated cabinets, show cases, and display cases are classified in industry 3585, and safes and vaults in industry 3499.

2542 Metal Partitions, Shelving, Lockers, and Office and Store Fixtures.—Establishments primarily engaged in manufacturing metal shelving, storage racks, lockers, office and store fixtures, prefabricated partitions, and related fabricated products. Establishments primarily engaged in manufacturing refrigerated cabinets, show cases, and display cases are classified in industry 3585, and safes and vaults in industry 3499.

259 MISCELLANEOUS FURNITURE AND FIXTURES

2591 Drapery Hardware and Window Blinds and Shades.—Establishments primarily engaged in manufacturing curtain and drapery rods, poles, and fixtures; and venetian blinds and other window blinds and shades, regardless of the materials used, except canvas shades and awnings (industry 2394).

2599 Furniture and Fixtures, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing furniture and fixtures, not elsewhere classified, including furniture specially designed for use in restaurants, bars, cafeterias, bowling establishments, and ships.

26 PAPER AND ALLIED PRODUCTS

This major group includes the manufacture of pulps from wood and other cellulose fibers, and from rags; the manufacture of paper and paperboard; and the manufacture of paper and paperboard into converted products such as paper coated off the paper machine, paper bags, paper boxes and envelopes. Certain types of converted paper products are classified elsewhere, such as abrasive paper in industry 3291, carbon paper in industry 3955, and photosensitized and blueprint paper in industry 3861.

261 PULPMILLS

2611 Pulp mills.—Establishments primarily engaged in manufacturing pulp from wood or from other materials such as rags, linters, wastepaper, and straw. Logging camps operated by pulpmills, and not separately reported, are also included in this industry. Establishments primarily engaged in cutting pulpwood are classified in industry 2411; and pulpmills combined with papermills or paperboard mills, and not separately reported, are classified with the latter in industries 2621 and 2631, respectively.

262 PAPERMILLS, EXCEPT BUILDING PAPERMILLS

2621 Papermills, Except Building Papermills.—Establishments primarily engaged in manufacturing paper (except building paper—industry 2661) from woodpulp and other fibers, and which may also manufacture converted paper products. Pulp mills combined with papermills, and not separately reported, are also included in this industry; where separately reported, they are classified in industry 2611. Establishments primarily engaged in manufacturing converted paper products from purchased paper stock are classified in SIC groups 264 or 265.

263 PAPERBOARD MILLS

2631 Paperboard Mills.—Establishments primarily engaged in manufacturing paperboard, including paperboard coated on the paperboard machine, from woodpulp and other fibers; and which may also manufacture converted paperboard products. Pulp mills combined with paperboard mills, and not separately reported, are also included in this industry; where separately reported, they are classified in industry 2611. Establishments primarily engaged in manufacturing converted paperboard products from purchased paperboard are classified in SIC groups 264 or 265, and building board in industry 2661.

264 CONVERTED PAPER AND PAPERBOARD PRODUCTS, EXCEPT CONTAINERS AND BOXES

2641 Paper Coating and Glazing.—Establishments primarily engaged in manufacturing coated, glazed, or varnished paper from purchased paper. Also included are establishments primarily manufacturing pressure

sensitive tape with backing of any material other than rubber. Establishments primarily engaged in manufacturing carbon paper are classified in industry 3955, and photographic and blueprint paper in industry 3861.

2642 Envelopes.—Establishments primarily engaged in manufacturing envelopes of any description from purchased paper and paperboard. Establishments primarily engaged in manufacturing papeteries (boxed stationery) are classified in industry 2648.

2643 Bags, Except Textile Bags.—Establishments primarily engaged in manufacturing bags from purchased paper, cellophane, acetate, polyethylene, polypropylene, pliofilm, foil, and similar sheet or film materials.

2645 Die-Cut Paper and Paperboard and Cardboard.—Establishments primarily engaged in diecutting purchased paper and paperboard; and in manufacturing cardboard by laminating, lining, or surface coating paperboard. Establishments primarily engaged in laminating building paper or building board from purchased paper or board are classified in industry 2649.

2646 Pressed and Molded Pulp Goods.—Establishments primarily engaged in manufacturing all kinds of pressed and molded pulp goods, including papier-mache articles other than statuary and art goods (industry 3299). Establishments primarily engaged in manufacturing plates and utensils from paper are classified in industry 2654.

2647 Sanitary Paper Products.—Establishments primarily engaged in manufacturing, from purchased paper, sanitary paper products, such as facial tissues and handkerchiefs, table napkins, toilet paper, towels, disposable diapers, and sanitary napkins and tampons.

2648 Stationery, Tablets, and Related Products.—Establishments primarily engaged in manufacturing stationery, tablets, looseleaf fillers, and related items from purchased paper. Establishments primarily engaged in manufacturing envelopes are classified in industry 2642.

2649 Converted Paper and Paperboard Products, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing from purchased paper or paperboard miscellaneous converted paper or paperboard

products not elsewhere classified. Establishments primarily engaged in manufacturing sanitary paper products from purchased paper are classified in industry 2647. The paper stock used for wallpaper, called "hanging paper," is classified in industry 2621. Establishments primarily engaged in manufacturing stationery, tablets, and related products are classified in industry 2648.

265 PAPERBOARD CONTAINERS AND BOXES

2651 Folding Paperboard Boxes.—Establishments primarily engaged in manufacturing folding paperboard boxes from purchased paperboard.

2652 Set-up Paperboard Boxes.—Establishments primarily engaged in manufacturing set-up paperboard boxes from purchased paperboard.

2653 Corrugated and Solid Fiber Boxes.—Establishments primarily engaged in manufacturing corrugated and solid fiber boxes and related products from purchased paperboard of fiber stock. Important products of this industry include corrugated and solid fiberboard boxes, pads, partitions, display items, pallets, single-face products, and corrugated sheets.

2654 Sanitary Food Containers.—Establishments primarily engaged in manufacturing food containers from special food board. Important products of this industry include fluid milk containers; folding par-affined cartons for butter, margarine, and shortening; ice cream containers; frozen food containers; liquid tight containers; round nested food containers; paper cups for hot or cold drinks; pails for food and ice cream; and stamped plates, dishes, spoons, and similar products. Establishments primarily engaged in manufacturing similar items of plastics materials are classified in industry 3079.

2655 Fiber Cans, Tubes, Drums, and Similar Products.—Establishments primarily engaged in manufacturing from purchased materials fiber cans, cones, drums, similar products with or without metal ends, and vulcanized fiber boxes.

266 BUILDING PAPER AND BUILDING BOARD MILLS

2661 Building Paper and Building Board Mills.—Establishments primarily engaged in manufacturing building

paper and building board from woodpulp and other fibrous materials. Pulp mills combined with building paper and building board mills, and not separately reported, are also included in this industry; where separately reported, they are classified in industry 2611.

27

PRINTING, PUBLISHING, AND ALLIED INDUSTRIES

This major group includes establishments engaged in printing by one or more of the common processes, such as letterpress, lithography, gravure, or screen; and those establishments which perform services for the printing trade, such as bookbinding, typesetting, engraving, photoengraving, and electrotyping. This major group also includes establishments engaged in publishing newspapers, books, and periodicals, regardless of whether or not they do their own printing. News syndicates are classified in service industries, (industry 7351) and textile printing and finishing in SIC Major Group 22.

271 NEWSPAPERS: PUBLISHING, PUBLISHING AND PRINTING

2711 Newspapers: Publishing, Publishing and Printing.—Establishments primarily engaged in publishing newspapers or in publishing and printing newspapers. These establishments carry on the various operations necessary for issuing newspapers, including the gathering of news and the preparation of editorials and advertisements, but may or may not perform their own printing. Commercial printing is frequently carried on by establishments engaged in publishing and printing newspapers, but, even though the commercial printing may be of major importance, such establishments are included in this industry. Establishments not engaged in publishing newspapers, but which print or lithograph newspapers for publishers, are classified in SIC group 275. News syndicates are classified in service industries (industry 7351).

272 PERIODICALS: PUBLISHING, PUBLISHING AND PRINTING

2721 Periodicals: Publishing, Publishing and Printing.—Establishments primarily engaged in publishing periodicals or in preparing, publishing, and printing

periodicals. These establishments carry on the various operations necessary for issuing periodicals, but may or may not perform their own printing. Establishments not engaged in publishing periodicals, but which print or lithograph periodicals for publishers, are classified in SIC group 275.

273 BOOKS

2731 Books: Publishing, Publishing and Printing.—Establishments primarily engaged in publishing only, or in publishing and printing books and pamphlets. Establishments primarily engaged in printing or in printing and binding (but not publishing) books and pamphlets are classified in industry 2732.

2732 Book Printing.—Establishments primarily engaged in printing only or in printing and binding books and pamphlets, but not engaged in publishing. Establishments primarily engaged in publishing, or in publishing and printing books and pamphlets, are classified in industry 2731. Establishments engaged in both printing and binding books, but primarily binding books printed elsewhere, are classified in industry 2789.

274 MISCELLANEOUS PUBLISHING

2741 Miscellaneous Publishing.—Establishments primarily engaged in miscellaneous publishing activities, not elsewhere classified, whether or not engaged in printing. Establishments primarily engaged in offering financial, credit, or other business services, and which may publish directories as part of this service, are not included in this industry but are classified in service industries.

275 COMMERCIAL PRINTING

2751 Commercial Printing, Letterpress and Screen.—Establishments primarily engaged in letterpress and screen commercial or job printing, including flexographic. This industry includes general printing shops, as well as shops specializing in printing newspapers and periodicals for others, and those which specialize in screen printing. Establishments primarily engaged in printing books, without publishing, are classified in industry 2732, and greeting cards in industry 2771. Establishments primarily engaged in printing from lithographic plates are classified in industry 2752, and gravure and rotogravure printing in industry 2754.

2752 Commercial Printing, Lithographic.—Establishments primarily engaged in printing by the lithographic process. The greater part of the work in this industry is performed on a job or custom basis; but, in some cases, lithographed calendars, maps, posters, decalcomanias, etc., are made for sale. Offset printing, photo-offset printing, and photolithographing are also included in this industry. Establishments primarily engaged in lithographing books and pamphlets, without publishing, are classified in industry 2732, and greeting cards in industry 2771. Establishments primarily engaged in preparing lithographic plates and in related services are classified in industry 2795.

2753 Engraving and Plate Printing.—Establishments primarily engaged in engraving and etching steel, copper, wood, or rubber plates; in using these plates to print stationery, visiting and other cards, invitations, maps, etc.; and in making woodcuts for use in printing illustrations, posters, etc. Engraving for purposes other than printing is classified in industry 3479.

2754 Commercial Printing, Gravure.—Establishments primarily engaged in gravure printing.

276 MANIFOLD BUSINESS FORMS

2761 Manifold Business Forms.—Establishments primarily engaged in designing and printing, by any process, special forms for use in the operation of a business, in single and multiple sets, including carbonized or interleaved with carbon or otherwise processed for multiple reproduction.

277 GREETING CARD PUBLISHING

2771 Greeting Card Publishing.—Establishments primarily engaged in the designing, publishing, and printing by any process of greeting cards for all occasions.

278 BLANKBOOKS, LOOSELEAF BINDERS, AND BOOKBINDING AND RELATED WORK

2782 Blankbooks, Looseleaf Binders, and Devices.—Establishments primarily engaged in manufacturing blankbooks, looseleaf devices, and library binders; and in ruling paper.

2789 Bookbinding and Related Work.—Establishments primarily engaged in edition, trade, job, and library bookbinding; in book or paper bronzing, gilding, and edging; in map and sample mounting; and other services related to bookbinding. Establishments primarily binding books printed elsewhere are classified in this industry, but those primarily binding books printed in the same establishment are classified in SIC group 273.

279 SERVICE INDUSTRIES FOR THE PRINTING TRADE

2791 Typesetting.—Establishments primarily engaged in typesetting for the trade, including advertisement typesetting.

2793 Photoengraving.—Establishments primarily engaged in preparing photoengraved plates (halftones and line-cuts). These establishments do not, as a rule, print from the plates which they make, but prepare them for use by others.

2794 Electrotyping and Stereotyping.—Establishments primarily engaged in preparing electrotype and stereotype plates. These establishments do not, as a rule, print from the plates which they make, but prepare them for use by others.

2795 Lithographic Platemaking and Related Services.—Establishments primarily engaged in making lithographic plates and positives or negatives from which lithographic plates are made, and in related services. Establishments primarily engaged in printing by the lithographic process are classified in industry 2752.

28 CHEMICALS AND ALLIED PRODUCTS

This major group includes establishments producing basic chemical and establishments manufacturing products by predominantly chemical processes. Establishments classified in this major group manufacture three general classes of products: (1) Basic chemicals such as acids, alkalies, salts, and organic chemicals; (2) chemical products to be used in further manufacture such as synthetic fibers, plastics materials, dry colors, and pigments; (3) finished chemical products to be used for ultimate consumption such as drugs, cosmetics, and soaps; or to be used as materials or supplies in other industries, such as paints, fertilizers, and explosives. The mining of natural rock salt is classified in mining

industries. Establishments primarily engaged in manufacturing nonferrous metals and high-percentage ferroalloys are classified in SIC Major Group 33; silicon carbide in SIC Major Group 32; baking powder, other leavening compounds, and starches in SIC Major Group 20; and artists' colors in SIC Major Group 39. Establishments primarily engaged in packaging, repackaging, and bottling of purchased chemical products, but not engaged in manufacturing chemicals and allied products, are classified in trade industries.

281 INDUSTRIAL INORGANIC CHEMICALS

This group includes establishments primarily engaged in manufacturing basic industrial inorganic chemicals. Establishments primarily engaged in manufacturing formulated agricultural pesticides are classified in industry 2879; medicinal chemicals, drugs, and medicines in industry 2833; and soap and cosmetics in SIC group 284.

2812 Alkalies and Chlorine.—Establishments primarily engaged in manufacturing alkalies and chlorine.

2813 Industrial Gases.—Establishments primarily engaged in manufacturing gases for sale in compressed, liquid, and solid forms. Establishments primarily engaged in manufacturing fluorine and sulfur dioxide are classified in industry 2819; household ammonia in industry 2842, and other ammonia in industry 2873; and chlorine in industry 2812. Distributors of industrial gases and establishments primarily engaged in shipping liquid oxygen are classified in trade.

2816 Inorganic Pigments.—Establishments primarily engaged in manufacturing inorganic pigments. Important products of this industry include black pigments (except carbon black, industry 2895), white pigments, and color pigments. Organic color pigments, except animal black and bone black, are classified in industry 2865.

2819 Industrial Inorganic Chemicals, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing industrial inorganic chemicals not elsewhere classified. Important products of this industry include inorganic salts of sodium (excluding refined sodium chloride), potassium, aluminum, calcium, chromium, magnesium, mercury, nickel, silver, tin; inorganic compounds such as alums, calcium carbide, hydrogen peroxide, sodium silicate,

ammonia compounds (except fertilizers), rare earth metal salts and elemental bromine, fluorine, iodine, phosphorus, and alkali metals (sodium, potassium, lithium, etc.). Establishments primarily engaged in mining, milling, or otherwise preparing natural potassium, sodium, or boron compounds (other than common salt) are classified in industry 1474. Establishments primarily engaged in manufacturing household bleaches are classified in industry 2842; phosphoric acid in industry 2874; and nitric acid, anhydrous ammonia, and other nitrogenous fertilizer materials in industry 2873.

282 PLASTICS MATERIALS AND SYNTHETIC RESINS, SYNTHETIC RUBBER, SYNTHETIC AND OTHER MANMADE FIBERS, EXCEPT GLASS

This group includes chemical establishments primarily engaged in manufacturing plastics materials and synthetic resins, synthetic rubbers, and cellulosic and manmade organic fibers. Establishments primarily engaged in the manufacture of rubber products and those primarily engaged in the compounding of purchased resins or the fabrication of plastics sheets, rods, and miscellaneous plastics products are classified in SIC Major Group 30; and textile mills primarily engaged in throwing, spinning, weaving, or knitting textile products from manufactured fibers are classified in SIC Major Group 22.

2821 Plastics Materials, Synthetic Resins, and Nonvulcanizable Elastomers.—Establishments primarily engaged in manufacturing synthetic resins, plastics materials, and nonvulcanizable elastomers. Important products of this industry include: Cellulose plastic materials; phenolic and other tar acid resins; urea and melamine resins; vinyl resins; styrene resins; alkyd resins; acrylic resins; polyethylene resins; polypropylene resins; rosin modified resins; coumarone-indene and petroleum polymer resins; and miscellaneous resins including polyamide resins, silicones, polyisobutylenes, polyesters, polycarbonate resins, acetal resins, fluorohydrocarbon resins; and casein plastics. Establishments primarily engaged in manufacturing fabricated plastics products or plastics film, sheet, rod, nontextile monofilaments and regenerated cellulose products, and vulcanized fiber are classified in industry 3079, whether from purchased resins or from resins produced in the same plant. Establishments primarily engaged in compounding purchased resins are also classified in industry 3079. Establishments primarily manufacturing adhesives are classified in industry 2891.

2822 Synthetic Rubber (Vulcanizable Elastomers).—Establishments primarily engaged in manufacturing synthetic rubber by polymerization or copolymerization. An elastomer for the purpose of this classification is a rubber-like material capable of vulcanization, such as copolymers of butadiene and styrene, or butadiene and acrylonitrile, polybutadienes, chloroprene rubbers, and isobutylene-isoprene copolymers. Butadiene copolymers containing less than 50% butadiene are classified in industry 2821. Natural chlorinated rubbers and cyclized rubbers are considered as semifinished products and are classified in industry 3069.

2823 Cellulosic Manmade Fibers.—Establishments primarily engaged in manufacturing cellulosic fibers (including cellulose acetate and regenerated cellulose such as rayon by the viscose or cuprammonium process) in the form of monofilament, yarn, staple, or tow suitable for further manufacturing on spindles, looms, knitting machines, or other textile processing equipment. Establishments primarily engaged in manufacturing textile glass fibers are classified in industry 3229.

2824 Synthetic Organic Fibers, Except Cellulosic.—Establishments primarily engaged in manufacturing synthetic organic fibers, except cellulosic (including those of regenerated proteins, and of polymers or copolymers of such components as vinyl chloride, vinylidene chloride, linear esters, vinyl alcohols, acrylonitrile, ethylenes, amides, and related polymeric materials) in the form of monofilament, yarn, staple, or tow suitable for further manufacturing on spindles, looms, knitting machines, or other textile processing equipment. Establishments primarily engaged in manufacturing textile glass fibers are classified in industry 3229.

283 DRUGS

This group includes establishments primarily engaged in manufacturing, fabricating, or processing medicinal chemicals and pharmaceutical products. Also included in this group are establishments primarily engaged in the grading, grinding, and milling of botanicals.

2831 Biological Products.—Establishments primarily engaged in the production of bacterial and virus vaccine, toxoids and analogous products (such as allergenic extracts), serums, plasmas, and other blood derivatives for human or veterinary use.

2833 Medicinal Chemicals and Botanical Products.—Establishments primarily engaged in (1) manufacturing bulk organic and inorganic medicinal chemicals and their derivatives; and (2) processing (grading, grinding, and milling) bulk botanical drugs and herbs. Establishments primarily engaged in manufacturing agar-agar and similar products of natural origin, endocrine products, manufacturing or isolating basic vitamins, and isolating active medicinal principals such as alkaloids from botanical drugs and herbs are also included in this industry.

2834 Pharmaceutical Preparations.—Establishments primarily engaged in manufacturing, fabricating, or processing drugs in pharmaceutical preparations for human or veterinary use. The greater part of the products of these establishments are finished in the form intended for final consumption, such as ampoules, tablets, capsules, vials, ointments, medicinal powders, solutions, and suspensions. Products of this industry consist of two important lines, namely: (1) Pharmaceutical preparations promoted primarily to the dental, medical, or veterinary professions; and (2) pharmaceutical preparations promoted primarily to the public.

284 SOAP, DETERGENTS, AND CLEANING PREPARATIONS, PERFUMES, COSMETICS, AND OTHER TOILET PREPARATIONS

This group includes establishments primarily engaged in manufacturing soap and other detergents and in producing glycerin from vegetable and animal fats and oils; specialty cleaning, polishing, and sanitation preparations; and surface active preparations used as emulsifiers, wetting agents, and finishing agents, including sulfonated oils; and perfumes, cosmetics, and other toilet preparations.

2841 Soap and Other Detergents, Except Specialty Cleaners.—Establishments primarily engaged in manufacturing soap, synthetic organic detergents, inorganic alkaline detergents, or any combination thereof, and establishments producing crude and refined glycerin from vegetable and animal fats and oils. Establishments primarily engaged in manufacturing shampoos or shaving products, whether from soap or synthetic detergents, are classified in industry 2844; and synthetic glycerin in industry 2869.

2842 Specialty Cleaning, Polishing, and Sanitation Preparations.—Establishments primarily engaged in manu-

facturing furniture, metal, and other polishes; waxes and dressings for fabricated leather and other materials; household, institutional and industrial plant disinfectants, deodorants; dry cleaning preparations; household bleaches; and other sanitation preparations. Establishments primarily manufacturing household pesticidal preparations are classified in industry 2879.

2843 Surface Active Agents, Finishing Agents, Sulfonated Oils and Assistants.—Establishments primarily engaged in producing surface active preparations for use as wetting agents, emulsifiers, and penetrants. Establishments engaged in producing sulfonated oils and fats and related products are also included.

2844 Perfumes, Cosmetics, and Other Toilet Preparations.—Establishments primarily engaged in manufacturing perfumes (natural and synthetic), cosmetics, and other toilet preparations. This industry also includes establishments primarily engaged in blending and compounding perfume bases; and those manufacturing shampoos and shaving products, whether from soap or synthetic detergents. Establishments primarily engaged in manufacturing synthetic perfume and flavoring materials are classified in industry 2869, and essential oils in industry 2899.

285 PAINTS, VARNISHES, LACQUERS, ENAMELS, AND ALLIED PRODUCTS

2851 Paints, Varnishes, Lacquers, Enamels, and Allied Products.—Establishments primarily engaged in manufacturing paints (in paste and ready-mixed form); varnishes; lacquers; enamels and shellac; putties, wood fillers and sealers; paint and varnish removers; and paint brush cleaners and allied paint products. Establishments primarily engaged in manufacturing carbon black are classified in industry 2895; boneblack, lampblack, and inorganic color pigments in industry 2816; organic color pigments in industry 2865; plastics materials in industry 2821; printing ink in industry 2893; calking compounds and sealants in industry 2891; and artists' paints in industry 3952.

286 INDUSTRIAL ORGANIC CHEMICALS

Establishments primarily engaged in manufacturing industrial organic chemicals. Important products of this group include: (1) Noncyclic organic chemicals such as

acetic, chloroacetic, adipic, formic, oxalic and tartaric acids and their metallic salts; chloral, formaldehyde, and methylamine; (2) solvents such as amyl, butyl, and ethyl alcohols; methanol; amyl, butyl and ethyl acetates; ethel ether, ethylene glycol ether and diethylene glycol ether; acetone, carbon disulfide, and chlorinated solvents such as carbon tetrachloride, perchloroethylene and trichloroethylene; (3) polyhydric alcohols such as ethylene glycol, sorbitol, pentaerythritol, synthetic glycerin; (4) synthetic perfume and flavoring materials such as coumarin, methyl salicylate, saccharin, citral, citronellal, synthetic geraniol, ionone, terpeneol, and synthetic vanillin; (5) rubber processing chemicals such as accelerators and antioxidants, both cyclic and acyclic; (6) plasticizers, both cyclic and acyclic, such as esters of phosphoric acid, phthalic anhydride, adipic acid, lauric acid, oleic acid, sebacic acid, and stearic acid; (7) synthetic tanning agents such as naphthalene sulfonic acid condensates; (8) chemical warfare gases; (9) esters, amines, etc., of polyhydric alcohols and fatty and other acids; (10) cyclic crudes and intermediates; (11) cyclic dyes and organic pigments; and (12) natural gum and wood chemicals. Establishments primarily engaged in manufacturing plastics materials and nonvulcanizable elastomers are classified in industry 2821; synthetic rubber in industry 2822; essential oils in industry 2899; rayon and other synthetic fibers in industries 2823 and 2824; specialty cleaning, polishing and sanitation preparations in industry 2842; paints in industry 2851; and inorganic pigments in industry 2816. Distilleries engaged in the manufacture of grain alcohol for beverage purposes are classified in industry 2085.

2861 Gum and Wood Chemicals.—Establishments primarily engaged in manufacturing hardwood and softwood distillation products, wood and gum naval stores, charcoal, natural dyestuffs, and natural tanning materials. Establishments primarily engaged in manufacturing synthetic tanning materials and synthetic organic chemicals are classified in industry 2869, and synthetic organic dyes in industry 2865.

2865 Cyclic (Coal Tar) Crudes, and Cyclic Intermediates, Dyes, and Organic Pigments (Lakes and Toners).—Establishments primarily engaged in manufacturing coal tar crudes and cyclic organic intermediates, dyes, color lakes, and toners. Important products of this industry include: (1) Derivatives of benzene, toluene, naphthalene, anthracene, pyridine, carbazole, and other cyclic chemical products; (2) syn-

thetic organic dyes; (3) synthetic organic pigments; and (4) cyclic (coal tar) crudes, such as light oils and light oil products; coal tar acids; and products of medium and heavy oil such as creosote oil, naphthalene, anthracene, and their higher homologues, and tar. Establishments primarily engaged in manufacturing coal tar crudes in chemical recovery ovens are classified in industry 3312, and petroleum refineries which produce such products in industry 2911.

2869 Industrial Organic Chemicals, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing industrial organic chemicals not elsewhere classified. Important products of this industry include: (1) Noncyclic organic chemicals such as acetic, chloroacetic, adipic, formic, oxalic and tartaric acids and their metallic salts; chloral, formaldehyde and methylamine; (2) solvents such as amyl, butyl, and ethyl alcohols; methanol; amyl, butyl and ethyl acetates; ethel ether, ethylene glycol ether and diethylene glycol ether; acetone, carbon disulfide and chlorinated solvents such as carbon tetrachloride, perchloroethylene and trichloroethylene; (3) polyhydric alcohols such as ethylene glycol, sorbitol, pentaerythritol, synthetic glycerin; (4) synthetic perfume and flavoring materials such as coumarin, methyl salicylate, saccharin, citral, citronellal, synthetic geraniol, ionone, terpeneol, and synthetic vanillin; (5) rubber processing chemicals such as accelerators and antioxidants, both cyclic and acyclic; (6) plasticizers, both cyclic and acyclic, such as esters of phosphoric acid, phthalic anhydride, adipic acid, lauric acid, oleic acid, sebacic acid, and stearic acid; (7) synthetic tanning agents such as naphthalene sulfonic acid condensates; (8) chemical warfare gases; and (9) esters, amines, etc., of polyhydric alcohols and fatty and other acids. Establishments primarily engaged in manufacturing plastics materials and nonvulcanizable elastomers are classified in industry 2821; synthetic rubber in industry 2822; essential oils in industry 2899; wood distillation products, naval stores, and natural dyeing and tanning materials in industry 2861; rayon and other synthetic fibers in industries 2823 and 2824; specialty cleaning, polishing, and sanitation preparations in industry 2842; paints in industry 2851; urea in industry 2873; organic pigments in industry 2865; and inorganic pigments in industry 2816. Distilleries engaged in the manufacture of grain alcohol for beverage purposes are classified in industry 2085.

287 AGRICULTURAL CHEMICALS

This group includes establishments primarily engaged in manufacturing nitrogenous and phosphatic basic fertilizers, mixed fertilizers, pesticides, and other agricultural chemicals. Establishments primarily engaged in manufacturing basic chemicals which require further processing or formulation before use as agricultural pest-control agents are classified in SIC group 281 or 286.

- 2873 Nitrogenous Fertilizers.**—Establishments primarily engaged in manufacturing nitrogenous fertilizer material or mixed fertilizers from nitrogenous materials produced in the same establishment. Included are ammonia fertilizer compounds and anhydrous ammonia, nitric acid, ammonium nitrate, ammonium sulfate and nitrogen solutions, urea, and natural organic fertilizers (except compost) and mixtures.
- 2874 Phosphatic Fertilizers.**—Establishments primarily engaged in manufacturing phosphatic fertilizer materials or mixed fertilizers from phosphatic materials produced in the same establishment. Included are phosphoric acid; normal, enriched, and concentrated superphosphates; ammonium phosphates; nitrophosphates; and calcium metaphosphates.
- 2875 Fertilizers, Mixing Only.**—Establishments primarily engaged in mixing fertilizers from purchased fertilizer materials.
- 2879 Pesticides and Agricultural Chemicals, Not Elsewhere Classified.**—Establishments primarily engaged in the formulation and preparation of ready-to-use agricultural and household pest-control chemicals, including insecticides, fungicides, and herbicides from technical chemicals or concentrates; and the production of concentrates which require further processing before use as agricultural pesticides. This industry also includes establishments primarily engaged in manufacturing or formulating agricultural chemicals, not elsewhere classified, such as minor or trace elements and soil conditioners. Establishments primarily engaged in manufacturing basic or technical agricultural pest-control chemicals including insecticides, fungicides, and herbicides such as lead and calcium arsenates, and copper sulfate are classified in SIC group 281, and DDT, BHC, 2,4-D carbamates, etc., in SIC group 286. Establishments primarily engaged in manufacturing agricultural lime products are classified in SIC Major Group 32.

289 MISCELLANEOUS CHEMICAL PRODUCTS

- 2891 Adhesives and Sealants.**—Establishments primarily engaged in manufacturing industrial and household adhesives, glues, calking compounds, sealants, and linoleum, tile, and rubber cements from vegetable, animal, or synthetic plastics materials, purchased or produced in the same establishment. Establishments primarily engaged in manufacturing gelatin and sizes are classified in industry 2899, and vegetable gelatin or agar-agar in industry 2833.
- 2892 Explosives.**—Establishments primarily engaged in manufacturing explosives. Establishments primarily engaged in manufacturing ammunition for small arms are classified in industry 3482, and fireworks in industry 2899.
- 2893 Printing Ink.**—Establishments primarily engaged in manufacturing printing ink, gravure ink, screen process ink, and lithographic ink.
- 2895 Carbon Black.**—Establishments primarily engaged in manufacturing carbon black (channel and furnace black).
- 2899 Chemicals and Chemical Preparations, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing miscellaneous chemical preparations, not elsewhere classified, such as fatty acids, essential oils, gelatin (except vegetable), sizes, bluing, laundry sours, writing and stamp pad inks; industrial compounds, such as boiler and heat insulating compounds, metal, oil and water treating compounds, and waterproofing compounds and chemical supplies for foundries. Establishments primarily engaged in manufacturing vegetable gelatin (agar-agar) are classified in industry 2833; and dessert preparations based on gelatin in industry 2099.

**29 PETROLEUM REFINING AND
RELATED INDUSTRIES**

This major group includes establishments primarily engaged in petroleum refining, manufacturing paving and roofing materials, and compounding lubricating oils and greases from purchased materials. Establishments manufacturing and distributing gas to consumers are classified in public utilities industries, and those primarily engaged in producing coke and byproducts in SIC Major Group 33.

291 PETROLEUM REFINING

2911 Petroleum Refining.—Establishments primarily engaged in producing gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, and other products from crude petroleum and its fractionation products, through straight distillation of crude oil, redistillation of unfinished petroleum derivatives, cracking, or other processes. Establishments primarily engaged in producing natural gasoline from natural gas are classified in mining industries. Those manufacturing lubricating oils and greases by blending and compounding purchased materials are included in industry 2992. Establishments primarily re-refining used lubricating oils are classified in industry 2992.

295 PAVING AND ROOFING MATERIALS

2951 Paving Mixtures and Blocks.—Establishments primarily engaged in manufacturing asphalt and tar paving mixtures; and paving blocks made of asphalt, creosoted wood, and various compositions of asphalt or tar with other materials. Establishments primarily engaged in manufacturing brick, concrete, granite, and stone paving blocks are classified in SIC Major Group 32.

2952 Asphalt Felts and Coatings.—Establishments primarily engaged in manufacturing asphalt and other saturated felts in roll or shingle form, either smooth or faced with grit, and in manufacturing roofing cements and coatings. Establishments primarily engaged in manufacturing paint are classified in industry 2851, and linoleum and tile cement in industry 2891.

299 MISCELLANEOUS PRODUCTS OF PETROLEUM AND COAL

2992 Lubricating Oils and Greases.—Establishments primarily engaged in blending, compounding, and re-refining lubricating oils and greases from purchased mineral, animal, and vegetable materials. Petroleum refineries engaged in the production of lubricating oils and greases are classified in industry 2911.

2999 Products of Petroleum and Coal, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing fuel briquettes, boulets, packaged fuel, powdered fuel, and other products of petroleum and coal not elsewhere classified.

30 RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

This major group includes establishments manufacturing from natural, synthetic, or reclaimed rubber, gutta percha, balata, or gutta siak, rubber products such as tires, rubber footwear, mechanical rubber goods, heels and soles, flooring, and rubber sundries. This group also includes establishments primarily manufacturing tires, but establishments primarily recapping and retreading automobile tires are classified in industry 7534. This group also includes establishments engaged in molding primary plastics for the trade and manufacturing miscellaneous finished plastics products. The manufacture of elastic webbing is classified in SIC Major Group 22; products made of elastic webbing and garments made from rubberized fabrics in SIC Major Group 23; and synthetic rubber in industry 2822.

301 TIRES AND INNER TUBES

3011 Tires and Inner Tubes.—Establishments primarily engaged in manufacturing pneumatic casings, inner tubes, and solid and cushion tires for all types of vehicles, airplanes, farm equipment, and children's vehicles; tiring; and camelback, and tire repair and retreading materials. Establishments primarily engaged in retreading tires are classified in industry 7534.

302 RUBBER AND PLASTICS FOOTWEAR

3021 Rubber and Plastics Footwear.—Establishments primarily engaged in manufacturing all rubber and plastics footwear, waterproof fabric upper footwear, and other fabric upper footwear having rubber or plastic soles vulcanized to the uppers. Establishments primarily engaged in manufacturing rubber, composition, and fiber heels, soles, soling strips, and related shoemaking and repairing materials are classified in industry 3069; plastic soles and soling strips in industry 3079.

303 RECLAIMED RUBBER

3031 Reclaimed Rubber.—Establishments primarily engaged in reclaiming rubber from scrap rubber tires, tubes, and miscellaneous waste rubber articles by processes which result in devulcanized, depolymerized, or regenerated replasticized products containing added ingredients. These products are sold

for use as a raw material in the manufacture of rubber goods with or without admixture with crude rubber or synthetic rubber. Establishments primarily engaged in the assembly and wholesale sale of scrap rubber are classified in trade industries.

304 RUBBER AND PLASTICS HOSE AND BELTING

3041 Rubber and Plastics Hose and Belting.—Establishments primarily engaged in manufacturing rubber and plastics hose and belting, including garden hose. Establishments primarily engaged in manufacturing rubber tubing are classified in industry 3069; plastic tubing in industry 3079; and flexible metallic hose in industry 3599.

306 FABRICATED RUBBER PRODUCTS, NOT ELSEWHERE CLASSIFIED

3069 Fabricated Rubber Products, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing industrial and mechanical rubber goods, rubberized fabrics, vulcanized rubber clothing, and miscellaneous rubber specialties and sundries. Establishments primarily engaged in rebuilding and retreading tires are classified in industry 7534; and gaskets and packing in industry 3293.

307 MISCELLANEOUS PLASTICS PRODUCTS

3079 Miscellaneous Plastics Products.—Establishments primarily engaged in molding primary plastics for the trade, and fabricating miscellaneous finished plastics products. Establishments primarily engaged in manufacturing fabricated plastics products or plastics film, sheet, rod, nontextile monofilaments and regenerated cellulose products, and vulcanized fiber are classified in this industry, whether from purchased resins or from resins produced in the same plant. Establishments primarily engaged in compounding purchased resins are also classified in this industry. Establishments primarily engaged in manufacturing artificial leather are classified in industry 2295.

31 LEATHER AND LEATHER PRODUCTS

This major group includes establishments engaged in tanning, currying, and finishing hides and skins, and

establishments manufacturing finished leather, artificial leather products, and some similar products made of other materials. Leather converters are also included.

311 LEATHER TANNING AND FINISHING

3111 Leather Tanning and Finishing.—Establishments primarily engaged in tanning, currying, and finishing hides and skins into leather. This industry also includes leather converters who buy hides and skins and have them processed into leather on a contract basis by others.

313 BOOT AND SHOE CUT STOCK AND FINDINGS

3131 Boot and Shoe Cut Stock and Findings.—Establishments primarily engaged in manufacturing leather soles, inner soles, and other boot and shoe cut stock and findings. This industry also includes finished wood heels. Establishments primarily engaged in manufacturing heels, soling strips, and soles made of rubber, composition, plastics, and fiber are classified in SIC Major Group 30.

314 FOOTWEAR, EXCEPT RUBBER

3142 House Slippers.—Establishments primarily engaged in manufacturing house slippers of leather or other materials.

3143 Men's Footwear, Except Athletic.—Establishments primarily engaged in the production of men's footwear designed primarily for dress, street, and work. Establishments primarily engaged in the production of such protective footwear as rubbers, rubber boots, storm shoes, galoshes, and other footwear with rubber soles vulcanized to the uppers are classified in industry 3021. Establishments primarily engaged in the production of athletic shoes and youths' and boys' shoes are classified in industry 3149.

3144 Women's Footwear, Except Athletic.—Establishments primarily engaged in the production of women's footwear designed primarily for dress, street, and work. Establishments primarily engaged in the production of athletic shoes and misses', children's, infants', and babies' footwear are classified in industry 3149. Establishments primarily engaged in the production of rubber or plastics footwear are classified in industry 3021.

- 3149 Footwear, Except Rubber, Not Elsewhere Classified.**—Establishments primarily engaged in the production of shoes, not elsewhere classified, such as misses', youths', boys', children's, infants', and babies' footwear, and athletic footwear. Establishments primarily engaged in the production of rubber or plastics footwear are classified in industry 3021.

315 LEATHER GLOVES AND MITTENS

- 3151 Leather Gloves and Mittens.**—Establishments primarily engaged in manufacturing dress, semidress, and work gloves exclusively of leather or leather with lining of other material. Establishments primarily engaged in manufacturing sporting and athletic gloves are classified in industry 3949; and dress, semidress, and work gloves and mittens of cloth or cloth and leather combined in industry 2381.

316 LUGGAGE

- 3161 Luggage.**—Establishments primarily engaged in manufacturing luggage of leather or other materials.

317 HANDBAGS AND OTHER PERSONAL LEATHER GOODS

- 3171 Women's Handbags and Purses.**—Establishments primarily engaged in manufacturing women's handbags and purses of leather or other materials, except precious metal (industry 3911).
- 3172 Personal Leather Goods, Except Women's Handbags and Purses.**—Establishments primarily engaged in manufacturing small articles, such as billfolds, key cases, and coin purses of leather or other materials, except precious metal (industry 3911).

319 LEATHER GOODS, NOT ELSEWHERE CLASSIFIED

- 3199 Leather Goods, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing leather goods, not elsewhere classified, such as saddlery, harness, whips, embossed leather goods, leather desk sets, razor strops, and leather belting. Establishments primarily engaged in manufacturing gaskets and packing are classified in industry 3293.

32

STONE, CLAY, GLASS, AND CONCRETE PRODUCTS

This major group includes establishments engaged in manufacturing flat glass and other glass products, cement, structural clay products, pottery, concrete and gypsum products, cut stone, abrasive and asbestos products, etc., from materials taken principally from the earth in the form of stone, clay, and sand. When separate reports are available for mines and quarries operated by manufacturing establishments classified in this major group, the mining and quarrying activities are classified in Division B. When separate reports are not available, the mining and quarrying activities other than those of industry 3295 are classified herein with the manufacturing operations.

If separate reports are not available for crushing, grinding, and other preparation activities of industry 3295, these establishments are classified in Division B.

321 FLAT GLASS

- 3211 Flat Glass.**—Establishments primarily engaged in manufacturing flat glass. This industry also produces laminated glass, but establishments primarily engaged in manufacturing laminated glass from purchased flat glass are classified in industry 3231.

322 GLASS AND GLASSWARE, PRESSED OR BLOWN

This group includes establishments primarily engaged in manufacturing glass and glassware, pressed, blown, or shaped from glass produced in the same establishment. Establishments primarily engaged in manufacturing glass products from purchased glass are classified in industry 3231.

- 3221 Glass Containers.**—Establishments primarily engaged in manufacturing glass containers for commercial packing and bottling and for home canning.

- 3229 Pressed and Blown Glass and Glassware, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing glass and glassware, not elsewhere classified, pressed, blown, or shaped from glass produced in the same establishment. Establishments primarily engaged in manufacturing textile glass fibers are also included in this industry, but establishments primarily engaged in manufacturing glass wool insulation products are classified in industry

3296. Establishments primarily engaged in the production of pressed lenses for vehicular lighting, beacons, and lanterns are also included in this industry, but establishments primarily engaged in the production of optical lenses are classified in industry 3832. Establishments primarily engaged in manufacturing glass containers are classified in industry 3221, and complete electric light bulbs in industry 3641.

323 GLASS PRODUCTS, MADE OF PURCHASED GLASS

3231 Glass Products, Made of Purchased Glass.—Establishments primarily engaged in manufacturing glass products from purchased glass. Establishments primarily engaged in manufacturing optical lenses and ophthalmic lenses are classified in SIC Major Group 38.

324 CEMENT, HYDRAULIC

3241 Cement, Hydraulic.—Establishments primarily engaged in manufacturing hydraulic cement, including portland, natural, masonry, and pozzolan cements.

325 STRUCTURAL CLAY PRODUCTS

3251 Brick and Structural Clay Tile.—Establishments primarily engaged in manufacturing brick and structural clay tile. Establishments primarily engaged in manufacturing clay firebrick are classified in industry 3255, nonclay firebrick in industry 3297, sand lime brick in industry 3299, and glass brick in industry 3229.

3253 Ceramic Wall and Floor Tile.—Establishments primarily engaged in manufacturing ceramic wall and floor tile. Establishments primarily engaged in manufacturing structural clay tile are classified in industry 3251, and drain tile in industry 3259.

3255 Clay Refractories.—Establishments primarily engaged in manufacturing clay firebrick and other heat-resisting clay products. Establishments primarily engaged in manufacturing nonclay refractories, as well as all graphite refractories whether of carbon bond or ceramic bond, are classified in industry 3297.

3259 Structural Clay Products, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing clay sewer pipe and structural clay products not elsewhere classified.

326 POTTERY AND RELATED PRODUCTS

3261 Vitreous China Plumbing Fixtures and China and Earthenware Fittings and Bathroom Accessories.—Establishments primarily engaged in manufacturing china plumbing fixtures and china and earthenware fittings and bathroom accessories.

3262 Vitreous China Table and Kitchen Articles.—Establishments primarily engaged in manufacturing vitreous china table and kitchen articles for use in households and in hotels, restaurants, and other commercial institutions for preparing, serving, or storing food or drink. Establishments primarily engaged in manufacturing fine (semivitreous) types of earthenware (whiteware) table and kitchen articles are classified in industry 3263.

3263 Fine Earthenware (Whiteware) Table and Kitchen Articles.—Establishments primarily engaged in manufacturing fine (semivitreous) types of earthenware table and kitchen articles for preparing, serving, or storing food or drink. Establishments primarily engaged in manufacturing vitreous china table and kitchen articles are classified in industry 3262.

3264 Porcelain Electrical Supplies.—Establishments primarily engaged in manufacturing porcelain electrical insulators, molded porcelain parts for electrical devices, spark plug and steatitic porcelain, and other electrical supplies from clay and other ceramic materials.

3269 Pottery Products, Not Elsewhere Classified.—Establishments primarily engaged in firing and decorating white china and earthenware for the trade and manufacturing art and ornamental pottery, industrial and laboratory pottery, stoneware and coarse earthenware table and kitchen articles, unglazed red earthenware florists' articles, and other pottery products, not elsewhere classified.

327 CONCRETE, GYPSUM, AND PLASTER PRODUCTS

3271 Concrete Block and Brick.—Establishments primarily engaged in manufacturing concrete building block and brick from a combination of cement and aggregate. Contractors engaged in concrete construction work are classified in the construction industries, and establishments primarily engaged in mixing and delivering ready-mixed concrete in industry 3273.

3272 Concrete Products, Except Block and Brick.—Establishments primarily engaged in manufacturing concrete products, except block and brick, from a combination of cement and aggregate. Contractors engaged in concrete construction work are classified in the construction industries, and establishments primarily engaged in mixing and delivering ready-mixed concrete in industry 3273.

3273 Ready-Mixed Concrete.—Establishments primarily engaged in manufacturing portland cement concrete manufactured and delivered to a purchaser in a plastic and unhardened state. This industry includes production and sale of central-mixed concrete, shrink-mixed concrete, and transit-mixed concrete.

3274 Lime.—Establishments primarily engaged in manufacturing quicklime, hydrated lime, and "dead-burned" dolomite from limestone, dolomite shells, or other substances.

3275 Gypsum Products.—Establishments primarily engaged in manufacturing plaster, plasterboard, and other products composed wholly or chiefly of gypsum.

328 CUT STONE AND STONE PRODUCTS

3281 Cut Stone and Stone Products.—Establishments primarily engaged in cutting, shaping, and finishing marble, granite, slate, and other stone for building and miscellaneous uses. Establishments primarily engaged in buying or selling partly finished monuments and tombstones, but performing no work on the stones other than lettering, finishing, or shaping to custom order, are classified in trade industries. The cutting of grindstones, pulpstones, and whetstones at the quarry is classified in Division B.

329 ABRASIVE, ASBESTOS, AND MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS

3291 Abrasive Products.—Establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials and other abrasive products. The cutting of grindstones, pulpstones, and whetstones at the quarry is classified in mining industries.

3292 Asbestos Products.—Establishments primarily engaged in manufacturing asbestos textiles, asbestos building materials, except asbestos paper (industry 2661),

insulating materials for covering boilers and pipes, and other commodities composed wholly or chiefly of asbestos. Establishments primarily engaged in manufacturing gaskets and steam and other packing are classified in industry 3293.

3293 Gaskets, Packing, and Sealing Devices.—Establishments primarily engaged in manufacturing gaskets, gasketing materials, compression packings, molded packings, oil seals, and mechanical seals. Included are gaskets, packing, and sealing devices made of leather, rubber, metal, asbestos, and plastics.

3295 Minerals and Earths, Ground or Otherwise Treated.—Establishments operating without a mine or quarry and primarily engaged in the crushing, grinding, pulverizing, or otherwise preparing clay, ceramic, and refractory minerals; barite; and miscellaneous nonmetallic minerals, except fuels. These minerals are the crude products mined by establishments of SIC groups 145 and 149 and industry 1472. Also included are establishments primarily crushing slag and preparing roofing granules. The beneficiation or preparation of other minerals and metallic ores, and the cleaning and grading of coal, are classified in the mining industries, whether or not the operation is associated with a mine.

3296 Mineral Wool.—Establishments primarily engaged in manufacturing mineral wool and mineral wool insulation products made of such siliceous materials as rock, slag, and glass, or combinations thereof. Establishments primarily engaged in manufacturing asbestos insulation products are classified in industry 3292, and textile glass fibers in industry 3229.

3297 Nonclay Refractories.—Establishments primarily engaged in manufacturing refractories and crucibles made of materials other than clay. This industry also includes establishments primarily engaged in manufacturing all graphite refractories, whether of carbon bond or ceramic bond. Establishments primarily engaged in manufacturing clay refractories are classified in industry 3255.

3299 Nonmetallic Mineral Products, Not Elsewhere Classified.—Establishments primarily engaged in the factory production of statuary and art goods made of plaster of paris and papier mache, and in manufacturing sand lime products and other nonmetallic mineral products not elsewhere classified.

33 PRIMARY METAL INDUSTRIES

This major group includes establishments engaged in the smelting and refining of ferrous and nonferrous metals from ore, pig, or scrap; in the rolling, drawing, and alloying of ferrous and nonferrous metals; in the manufacture of castings and other basic products of ferrous and nonferrous metals; and in the manufacture of nails, spikes, and insulated wire and cable. This major group also includes the production of coke. Establishments primarily engaged in manufacturing metal forgings or stampings are classified in SIC group 346.

331 BLAST FURNACES, STEELWORKS, AND ROLLING AND FINISHING MILLS

3312 Blast Furnaces (Including Coke Ovens), Steelworks, and Rolling Mills.—Establishments primarily engaged in manufacturing hot metal, pig iron, silvery pig iron, and ferroalloys from iron ore and iron and steel scrap; converting pig iron, scrap iron, and scrap steel into steel; and in hot rolling iron and steel into basic shapes such as plates, sheets, strips, rods, bars, and tubing. Merchant blast furnaces and byproduct or beehive coke ovens are also included in this industry. Establishments primarily engaged in manufacturing ferro and nonferrous additive alloys by electrometallurgical processes are classified in industry 3313.

3313 Electrometallurgical Products.—Establishments primarily engaged in manufacturing ferro and nonferrous additive alloys by electrometallurgical or metallothermic processes, including high percentage ferroalloys and high percentage nonferrous additive alloys.

3315 Steel Wiredrawing and Steel Nails and Spikes.—Establishments primarily engaged in drawing wire from purchased iron or steel rods, bars, or wire, and which may be engaged in the further manufacture of products made from wire; establishments primarily engaged in manufacturing steel nails and spikes from purchased materials are also included in this industry. Rolling mills engaged in the production of ferrous wire from wire rods or hot rolled bars produced in the same establishment are classified in industry 3312. Establishments primarily engaged in drawing nonferrous wire are classified in SIC group 335.

3316 Cold Rolled Steel Sheet, Strip, and Bars.—Establishments primarily engaged in (1) cold rolling steel sheets and strip from purchased hot rolled sheets; (2) cold drawing steel bars and steel shapes from purchased hot rolled steel bars; and (3) producing other cold finished steel. Establishments primarily engaged in the production of steel, including hot rolled steel sheets, and further cold rolling such sheets are classified in industry 3312.

3317 Steel Pipe and Tubes.—Establishments primarily engaged in the production of welded or seamless steel pipe and tubes and heavy riveted steel pipe from purchased materials. Establishments primarily engaged in the production of steel, including steel skelp or steel blanks, tube rounds, or pierced billets, are classified in industry 3312.

332 IRON AND STEEL FOUNDRIES

This group includes establishments primarily engaged in manufacturing iron and steel castings. These establishments generally operate on a job or order basis, manufacturing castings for sale to others or for interplant transfer. Establishments which produce iron and steel castings and which are also engaged in fabricating operations, such as machining, assembling, etc., in manufacturing a specified product are classified in the industry of the specified product. Iron and steel castings are made to a considerable extent by establishments classified in other industries, that operate foundry departments for the production of castings for incorporation, in the same establishment, into such products as stoves, furnaces, plumbing fixtures, motor vehicles, etc. Establishments primarily engaged in the manufacture and rolling of steel and also making steel castings are classified in industry 3312. Establishments primarily engaged in manufacturing nonferrous castings are classified in SIC group 336.

3321 Gray Iron Foundries.—Establishments primarily engaged in manufacturing gray iron castings, including cast iron pressure and soil pipes and fittings.

3322 Malleable Iron Foundries.—Establishments primarily engaged in manufacturing malleable iron castings.

3324 Steel Investment Foundries.—Establishments primarily engaged in manufacturing steel investment castings.

- 3325 Steel Foundries, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing steel castings not elsewhere classified.

333 PRIMARY SMELTING AND REFINING OF NON-FERROUS METALS

- 3331 Primary Smelting and Refining of Copper.**—Establishments primarily engaged in smelting copper from the ore, and in refining copper by electrolytic or other processes. Establishments primarily engaged in rolling, drawing, or extruding copper are classified in industry 3351.
- 3332 Primary Smelting and Refining of Lead.**—Establishments primarily engaged in smelting lead from the ore and in refining lead by any process. Establishments primarily engaged in rolling, drawing, or extruding lead are classified in industry 3356.
- 3333 Primary Smelting and Refining of Zinc.**—Establishments primarily engaged in smelting zinc from the ore and in refining zinc by any process. Establishments primarily engaged in rolling, drawing, or extruding zinc are classified in industry 3356.
- 3334 Primary Production of Aluminum.**—Establishments primarily engaged in producing aluminum from alumina and in refining aluminum by any process. Establishments primarily engaged in rolling, drawing, or extruding aluminum are classified in industries 3353, 3354, and 3355.
- 3339 Primary Smelting and Refining of Nonferrous Metals, Not Elsewhere Classified.**—Establishments primarily engaged in smelting and refining nonferrous metals not elsewhere classified. Establishments primarily engaged in rolling, drawing, and extruding these nonferrous primary metals are classified in industry 3356, and the production of bullion at the site of the mine is classified in the mining industries.

334 SECONDARY SMELTING AND REFINING OF NON-FERROUS METALS

- 3341 Secondary Smelting and Refining of Nonferrous Metals.**—Establishments primarily engaged in recovering nonferrous metals and alloys from new and used scrap and dross. This industry includes establishments engaged in both the recovery and alloying

of precious metals. Plants engaged in the recovery of tin through secondary smelting and refining, as well as by chemical processes, are included in this industry. Establishments primarily engaged in assembling, sorting, and breaking up scrap metal, without smelting and refining, are classified in trade industries.

335 ROLLING, DRAWING, AND EXTRUDING OF NON-FERROUS METALS

- 3351 Rolling, Drawing, and Extruding of Copper.**—Establishments primarily engaged in rolling, drawing, and extruding copper, brass, bronze, and other copper base alloy basic shapes, such as plate, sheet, strip, bar, and tubing. Establishments primarily engaged in recovering copper and its alloys from scrap or dross are classified in industry 3341.
- 3353 Aluminum Sheet, Plate, and Foil.**—Establishments primarily engaged in flat rolling aluminum and aluminum base alloy basic shapes such as sheet, plate, and foil, including establishments producing welded tube. Also included are establishments primarily producing similar products by continuous casting.
- 3354 Aluminum Extruded Products.**—Establishments primarily engaged in extruding aluminum and aluminum base alloy basic shapes such as rod and bar, pipe and tube, and tube blooms, including establishments producing tube by drawing.
- 3355 Aluminum Rolling and Drawing, Not Elsewhere Classified.**—Establishments primarily engaged in rolling, drawing, and other operations resulting in the production of aluminum ingot, including extrusion ingot, and aluminum and aluminum base alloy basic shapes, not elsewhere classified, such as rolled and continuous cast rod and bar. Establishments primarily engaged in producing aluminum powder, flake, and paste are classified in industry 3399, and those producing aluminum wire and cable from purchased wire bars, rods, or wire are classified in industry 3357.
- 3356 Rolling, Drawing, and Extruding of Nonferrous Metals, Except Copper and Aluminum.**—Establishments primarily engaged in rolling, drawing, and extruding nonferrous metals other than copper (industry 3351) and aluminum (industries 3353, 3354, and 3355). The products of this industry are

produced in the form of basic shapes such as plate, sheet, strip, bar, and tubing. Establishments primarily engaged in recovering nonferrous metals and alloys from scrap or dross are classified in industry 3341; in manufacturing gold, silver, tin, and other foils except aluminum in industry 3497; and aluminum foil in industry 3353.

- 3357 Drawing and Insulating of Nonferrous Wire.**—Establishments primarily engaged in drawing and insulating, and insulating wire and cable of nonferrous metals from purchased wire bars, rods, or wire.

336 NONFERROUS FOUNDRIES (CASTINGS)

This group includes establishments primarily engaged in manufacturing castings and die castings of aluminum, brass, bronze and other nonferrous metals and alloys. These establishments generally operate on a job or order basis, manufacturing castings for sale to others or for interplant transfer. Establishments which produce nonferrous castings and which are also engaged in fabricating operations, such as machining, assembling, etc., in manufacturing a specified product are classified in the industry of the specified product. Nonferrous castings are made to a considerable extent by establishments classified in other industries that operate foundry departments for the production of castings for incorporation, in the same establishment, into such products as machinery, motor vehicles, etc. Establishments primarily engaged in manufacturing iron and steel castings are classified in SIC group 332.

- 3361 Aluminum Foundries (Castings).**—Establishments primarily engaged in manufacturing castings and die castings of aluminum and aluminum-base alloys.
- 3362 Brass, Bronze, Copper, Copper Base Alloy Foundries (Castings).**—Establishments primarily engaged in manufacturing castings and die castings of copper and copper-base alloys.
- 3369 Nonferrous Foundries (Castings), Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing castings and die castings of nonferrous materials except aluminum, copper, and copper base alloys.

339 MISCELLANEOUS PRIMARY METAL PRODUCTS

- 3398 Metal Heat Treating.**—Establishments primarily engaged in heat treating of metal for the trade.

- 3399 Primary Metal Products, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing primary metal products, not elsewhere classified, such as nonferrous nails, brads, and spikes; and metal powder, flakes, and paste.

34 FABRICATED METAL PRODUCTS, EXCEPT MACHINERY AND TRANSPORTATION EQUIPMENT

This major group includes establishments engaged in fabricating ferrous and nonferrous metal products such as metal cans, tinware, handtools, cutlery, general hardware, nonelectric heating apparatus, fabricated structural metal products, metal forgings, metal stampings, ordnance (except vehicles and guided missiles), and a variety of metal and wire products not elsewhere classified. Certain important segments of the metal fabricating industries are classified in other major groups such as machinery in SIC Major Groups 35 and 36; transportation equipment, including tanks, in SIC Major Group 37; professional scientific and controlling instruments, watches, and clocks in SIC Major Group 38; and jewelry and silverware in SIC Major Group 39. Establishments primarily engaged in producing ferrous and nonferrous metals and their alloys are classified in SIC Major Group 33.

341 METAL CANS AND SHIPPING CONTAINERS

- 3411 Metal Cans.**—Establishments primarily engaged in manufacturing metal cans from purchased materials. Establishments primarily engaged in manufacturing foil containers are classified in industry 3497.
- 3412 Metal Shipping Barrels, Drums, Kegs, and Pails.**—Establishments primarily engaged in manufacturing ferrous and nonferrous metal shipping barrels, drums, kegs, and pails.

342 CUTLERY, HANDTOOLS, AND GENERAL HARDWARE

- 3421 Cutlery.**—Establishments primarily engaged in manufacturing cutlery. Establishments primarily engaged in manufacturing table cutlery made entirely of metal are classified in industry 3914; those manufacturing electric razors in industry 3634; and those manufacturing hair clippers for human use in industry 3999, and for animal use in industry 3523.

3423 Hand and Edge Tools, Except Machine Tools and Handsaws.—Establishments primarily engaged in manufacturing files and other hand and edge tools for metalworking, woodworking, and general maintenance. Establishments primarily engaged in manufacturing saws are classified in industry 3425; and metal-cutting dies, power-driven handtools, and attachments and accessories for machine tools in SIC Major Group 35.

3425 Handsaws and Saw Blades.—Establishments primarily engaged in manufacturing handsaws and saw blades for hand and power-driven saws. Establishments primarily engaged in manufacturing power-driven sawing machines are classified in SIC Major Group 35.

3429 Hardware, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing miscellaneous metal products usually termed "hardware," not elsewhere classified. Establishments primarily engaged in manufacturing bolts and nuts are classified in industry 3452, nails and spikes in SIC Major Group 33, cutlery in industry 3421, handtools in industry 3423, and pole line and transmission hardware in SIC Major Group 36.

343 HEATING EQUIPMENT, EXCEPT ELECTRIC AND WARM AIR; AND PLUMBING FIXTURES

3431 Enameled Iron and Metal Sanitary Ware.—Establishments primarily engaged in manufacturing enameled iron, cast iron, or pressed metal sanitary ware. Establishments primarily engaged in manufacturing vitreous and semivitreous pottery sanitary ware are classified in industry 3261; and those manufacturing porcelain enameled kitchen, household, and hospital ware in industry 3469.

3432 Plumbing Fixture Fittings and Trim (Brass Goods).—Establishments primarily engaged in manufacturing plumbing fixture fittings and trim (brass goods). Establishments primarily engaged in the manufacture of steam or water line valves are classified in industry 3494.

3433 Heating Equipment, Except Electric and Warm Air Furnaces.—Establishments primarily engaged in manufacturing heating equipment, except electric and warm air furnaces, including gas, oil, and stoker coal-fired equipment for the automatic utilization

of gaseous, liquid, and solid fuels. Establishments primarily engaged in manufacturing warm air furnaces are classified in industry 3585; cooking stoves and ranges in industry 3631; boiler shops primarily engaged in the production of industrial, power and marine boilers in industry 3443; and industrial process furnaces and ovens in industry 3567.

344 FABRICATED STRUCTURAL METAL PRODUCTS

3441 Fabricated Structural Metal.—Establishments primarily engaged in manufacturing fabricated iron and steel or other metal for structural purposes, such as bridges, buildings, and sections for ships, boats, and barges. Establishments primarily engaged in manufacturing metal doors, sash, frames, molding, and trim are classified in industry 3442; and establishments doing fabrication work at the site of construction are classified in Division C.

3442 Metal Doors, Sash, Frames, Molding, and Trim.—Establishments primarily engaged in manufacturing ferrous and nonferrous metal and metal covered doors and sash, window and door frames and screens, molding, and trim.

3443 Fabricated Platework (Boiler Shops).—Establishments primarily engaged in manufacturing power and marine boilers, pressure and nonpressure tanks, processing and storage vessels, heat exchangers, weldments, and similar products by the process of cutting, forming, and joining metal plates, shapes, bars, sheet, pipe mill products, and tubing to custom or standard design for factory or field assembly. Establishments primarily engaged in manufacturing warm air heating furnaces are classified in industry 3585, other nonelectric heating apparatus except power boilers in industry 3433, and household cooking apparatus in industry 3631.

3444 Sheet Metalwork.—Establishments primarily engaged in manufacturing sheet metalwork for buildings (not including fabrication work done by construction contractors at the place of construction), and manufacturing sheet metal stovepipes, light tanks, etc.

3446 Architectural and Ornamental Metalwork.—Establishments primarily engaged in manufacturing architectural and ornamental metalwork of ferrous and nonferrous metals, such as stairs and staircases, open

steel flooring (grating), fire escapes, grilles, railings, and fences and gates, except those made from wire. Establishments primarily engaged in manufacturing prefabricated and portable metal buildings and parts are classified in industry 3448, and miscellaneous metalwork in industry 3449.

3448 Prefabricated Metal Buildings and Components.—Establishments primarily engaged in manufacturing prefabricated and portable metal buildings and parts, and prefabricated exterior metal panels.

3449 Miscellaneous Metalwork.—Establishments primarily engaged in manufacturing miscellaneous ferrous and nonferrous metalwork, such as metal plaster bases, fabricated bar joists, and concrete reinforcing bars.

345 SCREW MACHINE PRODUCTS, AND BOLTS, NUTS, SCREWS, RIVETS, AND WASHERS

3451 Screw Machine Products.—Establishments primarily engaged in manufacturing automatic or hand screw machine products from rod, bar, or tube stock of metal, fiber, plastics, or other material. The products of this industry consist of a wide variety of unassembled parts and are usually manufactured on a job or order basis. Establishments primarily engaged in manufacturing standard bolts, nuts, rivets, screws, and other industrial fasteners on headers, threaders, and nut forming machines are classified in industry 3452.

3452 Bolts, Nuts, Screws, Rivets, and Washers.—Establishments primarily engaged in manufacturing bolts, nuts, screws, rivets, washers, formed and threaded wire goods, and special industrial fasteners. Rolling mills engaged in manufacturing similar products are classified in SIC Major Group 33, and establishments primarily engaged in manufacturing screw machine products in industry 3451.

346 METAL FORGINGS AND STAMPINGS

This group includes establishments primarily engaged in manufacturing metal forgings or metal stampings. These establishments generally operate on a job or order basis, manufacturing metal stampings or forgings for sale to others or for interplant transfer. Establishments which produce metal stampings or forgings for incorporation in end products produced in the same establishment are classified on the basis of the end product.

3462 Iron and Steel Forgings.—Establishments primarily engaged in manufacturing iron and steel forgings, with or without the use of dies.

3463 Nonferrous Forgings.—Establishments primarily engaged in manufacturing nonferrous forgings, with or without the use of dies.

3465 Automotive Stampings.—Establishments primarily engaged in manufacturing automotive stampings such as body parts, hubs, and trim.

3466 Crowns and Closures.—Establishments primarily engaged in manufacturing metal crowns and closures.

3469 Metal Stampings, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing metal stampings and spun products, not elsewhere classified, including porcelain enameled products such as household appliance housings and parts; utensils and consumer stamped and spun products such as cooking and kitchen utensils; and other nonautomotive job stampings.

347 COATING, ENGRAVING, AND ALLIED SERVICES

3471 Electroplating, Plating, Polishing, Anodizing, and Coloring.—Establishments primarily engaged in all types of electroplating, plating, anodizing, coloring, and finishing of metals and formed products for the trade. Most of the work done in this industry is done on materials owned by others.

3479 Coating, Engraving, and Allied Services, Not Elsewhere Classified.—Establishments primarily engaged in performing the following types of services on metals: (1) Enameling, lacquering, and varnishing metal products for the trade; (2) hot-dip galvanizing of mill sheets, plates and bars, castings, and formed products fabricated of iron and steel; hot-dip coating such items with aluminum, lead, or zinc; retinning cans and utensils; (3) engraving, chasing and etching jewelry, silverware, notarial and other seals, and other metal products for the trade and for job contracting for purposes other than printing; and (4) other metal services, not elsewhere classified. Establishments primarily engaged in electroplating, plating, polishing, anodizing, coloring, and finishing of metals and formed products for the trade are classified in industry 3471; and those producing porcelain enameled products in industry 3469.

348 ORDNANCE AND ACCESSORIES, EXCEPT VEHICLES AND GUIDED MISSILES

3482 Small Arms Ammunition.—Establishments primarily engaged in manufacturing ammunition for small arms having a bore of 30 mm (or 1.18 inch) and below. Establishments primarily engaged in manufacturing ammunition except for small arms are classified in industry 3483, blasting and detonating caps and safety fuses in industry 2892, and fireworks in industry 2899.

3483 Ammunition, Except for Small Arms, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing ammunition, not elsewhere classified, or in loading and assembling ammunition over 30 mm (or over 1.18 inch) for naval, aircraft, anti-aircraft, tank, coast, and field artillery; including component parts. This industry also includes establishments primarily engaged in manufacturing bombs, mines, torpedoes, grenades, depth charges, chemical warfare projectiles, and their component parts. Establishments primarily engaged in manufacturing small arms ammunition are classified in industry 3482, explosives in industry 2892, and military pyrotechnics in industry 2899.

3484 Small Arms.—Establishments primarily engaged in manufacturing small firearms having a bore 30 mm (or 1.18 inch) and below, and parts for small firearms. Also included in this industry are establishments primarily engaged in manufacturing certain weapons over 30 mm which are carried and employed by the individual, such as grenade launchers and heavy field machine guns. Establishments primarily engaged in manufacturing artillery and mortars having a bore over 30 mm (or over 1.18 inch) and component parts are classified in industry 3489.

3489 Ordnance and Accessories, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing ordnance and accessories, not elsewhere classified, such as naval, aircraft, anti-aircraft, tank, coast, and field artillery having a bore over 30 mm (or over 1.18 inch) and components. Establishments primarily engaged in manufacturing small arms and parts 30 mm (or 1.18 inch) and below are classified in industry 3484; tanks in industry 3795; and guided missiles in SIC group 376.

349 MISCELLANEOUS FABRICATED METAL PRODUCTS

3493 Steel Springs, Except Wire.—Establishments primarily engaged in manufacturing leaf springs, hot wound springs, and coiled flat springs. Establishments primarily engaged in manufacturing wire springs are classified in industry 3495.

3494 Valves and Pipe Fittings, Except Plumbers' Brass Goods.—Establishments primarily engaged in manufacturing pipe fittings and valves for controlling the flow of liquids or gases in pipes and mains, and for machinery. Establishments primarily engaged in manufacturing faucets, spigots, and similar plumbers' brass goods and fittings are classified in industry 3432, flexible metal hose and tubing in industry 3599, and fittings and couplings for garden hose in industry 3429.

3495 Wire Springs.—Establishments primarily engaged in manufacturing wire springs. Establishments primarily engaged in assembling wire bedsprings or seats are classified in SIC Major Group 25.

3496 Miscellaneous Fabricated Wire Products.—Establishments primarily engaged in manufacturing miscellaneous fabricated wire products from purchased wire, such as noninsulated wire rope and cable; fencing; screening, netting, paper machine wire cloth; and hangers, paper clips, kitchenware, and wire carts. Rolling mills engaged in manufacturing wire products are classified in SIC Major Group 33; establishments manufacturing nonferrous wire nails and spikes in industry 3399; those drawing and insulating nonferrous wire in industry 3357; and those manufacturing wire springs in industry 3495.

3497 Metal Foil and Leaf.—Establishments primarily engaged in manufacturing gold, silver, tin, and other metal foil (including converted metal foil) and leaf. Also included are establishments primarily engaged in converting metal foil (including aluminum) into wrappers, cookware, dinnerware, and containers, except bags and liners. Establishments primarily engaged in manufacturing plain aluminum foil are classified in industry 3353.

3498 Fabricated Pipe and Fabricated Pipe Fittings.—Establishments primarily engaged in fabricating pipe and pipe fittings from purchased pipe, by cutting,

threading, bending, etc. Establishments primarily engaged in manufacturing cast iron pipe and fittings, including cast and forged pipe fittings which have been machined and threaded, are classified in industry 3321; and welded and heavy riveted pipe and seamless steel pipe in industry 3317. Establishments primarily engaged in manufacturing products such as bannisters, railings, and guards from pipe are classified in industry 3446.

- 3499 Fabricated Metal Products, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing fabricated metal products, not elsewhere classified, such as fire or burglary resistive steel safes and vaults and similar fire or burglary resistive products; and collapsible tubes of thin flexible metal. Also included are establishments primarily engaged in manufacturing metal boxes, metal ladders, and metal household articles such as ice cream freezers and ironing boards. Establishments primarily engaged in manufacturing concrete grave vaults are classified in industry 3722, and metal grave vaults in industry 3995. Establishments primarily engaged in manufacturing advertising novelties are classified in industry 3993.

35 MACHINERY, EXCEPT ELECTRICAL

This major group includes establishments engaged in manufacturing machinery and equipment other than electrical equipment (SIC Major Group 36) and transportation equipment (SIC Major Group 37). Machines powered by built-in or detachable motors are ordinarily included in this major group, with the exception of electrical household appliances (SIC Major Group 36). Portable tools, both electric and pneumatic powered, are included in this major group, but handtools are classified in SIC Major Group 34.

351 ENGINES AND TURBINES

- 3511 Steam, Gas, and Hydraulic Turbine Generator Set Units.**—Establishments primarily engaged in manufacturing steam turbines; hydraulic turbines; gas turbines, except aircraft; complete steam, gas, and hydraulic turbine generator set units; and steam engines. Establishments primarily engaged in building or rebuilding locomotives are classified in industry 3743; and those manufacturing nonautomotive type generators which are not part of a turbine generator set in industry 3621.

- 3519 Internal Combustion Engines, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing diesel, semi-diesel, or other internal combustion engines, not elsewhere classified, for stationary, marine, traction, and other uses. Establishments primarily engaged in manufacturing aircraft engines are classified in industry 3724; automotive engines (except diesel) in industry 3714; engine generator sets in industry 3621; and guided missile and space vehicle propulsion units in industry 3764.

352 FARM AND GARDEN MACHINERY AND EQUIPMENT

- 3523 Farm Machinery and Equipment.**—Establishments primarily engaged in manufacturing farm machinery and equipment, including wheel tractors, for use in the preparation and maintenance of the soil; planting and harvesting of the crop; preparing crops for market, on the farm; or for use in performing other farm operations and processes. Establishments primarily engaged in manufacturing industrial trucks, tractors, and trailers used for handling materials in industrial plants, depots, and docks are classified in industry 3537; contractors' off-highway tractors are classified in industry 3531; farm handtools in SIC group 342; and garden tractors, lawn mowers and other lawn and garden equipment in industry 3524.

- 3524 Garden Tractors and Lawn and Garden Equipment.**—Establishments primarily engaged in manufacturing lawn mowers, garden tractors, and other lawn and garden equipment used for home lawn and garden care. Also included are establishments primarily manufacturing snow blowers and throwers for residential use. Establishments primarily engaged in manufacturing farm machinery and equipment are classified in industry 3523; hand lawn and garden shears and pruners in industry 3421; and other garden handtools in industry 3423.

353 CONSTRUCTION, MINING, AND MATERIALS HANDLING MACHINERY AND EQUIPMENT

- 3531 Construction Machinery and Equipment.**—Establishments primarily engaged in manufacturing heavy machinery and equipment used by the construction industries, such as bulldozers; concrete mixers; cranes, except industrial plant type; dredging machinery; pavers; and power shovels. Establish-

ments primarily engaged in manufacturing mining equipment are classified in industry 3532, and well-drilling machinery in industry 3533.

3532 Mining Machinery and Equipment, Except Oilfield Machinery and Equipment.—Establishments primarily engaged in manufacturing heavy machinery and equipment used by the mining industries, such as coal breakers, mine cars, mineral cleaning machinery, concentration machinery, core drills, coal cutters, portable rock drills, and rock crushing machinery. Establishments primarily engaged in manufacturing construction machinery are classified in industry 3531; well-drilling machinery in industry 3533; and coal and ore conveyors in industry 3535.

3533 Oilfield Machinery and Equipment.—Establishments primarily engaged in manufacturing machinery and equipment for use in oil and gas fields or for drilling water wells.

3534 Elevators and Moving Stairways.—Establishments primarily engaged in manufacturing passenger or freight elevators, automobile lifts, dumbwaiters, and moving stairways. Establishments primarily engaged in manufacturing commercial conveyor systems and equipment are classified in industry 3535, and farm elevators in industry 3523.

3535 Conveyors and Conveying Equipment.—Establishments primarily engaged in manufacturing conveyors and conveying equipment for installation in factories, warehouses, mines, and other industrial and commercial establishments. Establishments primarily engaged in manufacturing passenger or freight elevators, dumbwaiters, and moving stairways are classified in industry 3534; and overhead traveling cranes and monorail systems in industry 3536.

3536 Hoists, Industrial Cranes, and Monorail Systems.—Establishments primarily engaged in manufacturing overhead traveling cranes, hoists, and monorail systems for installation in factories, warehouses, and other industrial and commercial establishments.

3537 Industrial Trucks, Tractors, Trailers, and Stackers.—Establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, stackers (truck type), and related equipment, used for handling materials on floors and paved surfaces in and around industrial and commercial plants, depots, docks, and terminals. Establishments primarily engaged in

manufacturing motor vehicles and motor vehicle type trailers are classified in SIC group 371; farm-type wheel tractors in industry 3523; wheel tractor shovel loaders and tracklaying tractors in industry 3531; and wood pallets and skids in industry 2448.

354 METALWORKING MACHINERY AND EQUIPMENT

3541 Machine Tools, Metal-Cutting Types.—Establishments primarily engaged in manufacturing machines, not supported in the hands of an operator when in use, that shape metal by cutting or use of electrical techniques; the rebuilding of such machine tools; and the manufacture of replacement parts for them. Metalworking, or primarily metalworking, machine tools designed primarily for home workshops are also included. Establishments primarily engaged in the manufacture of electric welding equipment are classified in industry 3623; portable power-driven handtools in industry 3546; and gas welding and cutting equipment and automotive maintenance equipment in industry 3549.

3542 Machine Tools, Metal-Forming Types.—Establishments primarily engaged in manufacturing machines, not supported in the hands of an operator while in use, for pressing, hammering, extruding, shearing, die-casting, or otherwise forming metal into shape. This industry also includes rebuilding such machine tools and manufacturing repair parts for them. Establishments primarily engaged in the manufacture of electric welding equipment are classified in industry 3623; portable power-driven handtools in industry 3546; rolling mill machinery and equipment in industry 3547; and gas welding and cutting equipment and automotive maintenance equipment in industry 3549.

3544 Special Dies and Tools, Die Sets, Jigs and Fixtures, and Industrial Molds.—Establishments commonly known as contract tool and die shops and primarily engaged in manufacturing, on a job or order basis, special tools and fixtures for use with machine tools, hammers, die-casting machines, and presses. The products of establishments classified in this industry include a wide variety of special toolings, such as dies; punches; die sets and components and sub-presses; jigs and fixtures; and special checking devices. Establishments primarily engaged in manufacturing molds for die casting and foundry casting; metal molds for plasterworking, rubber working,

plastic working, glassworking and similar machinery are also included. Establishments primarily engaged in manufacturing molds for heavy steel ingots are classified in industry 3321.

3545 Machine Tool Accessories and Measuring Devices.—

Establishments primarily engaged in manufacturing cutting tools, machinist's precision measuring tools, and attachments and accessories for machine tools and for other metalworking machinery not elsewhere classified. Establishments primarily engaged in manufacturing handtools, except power-driven types, are classified in SIC group 342.

3546 Power-Driven Handtools.—

Establishments primarily engaged in manufacturing power-driven handtools, such as drills and drilling tools, pneumatic and snagging grinders, and electric hammers. Establishments primarily engaged in manufacturing automotive maintenance equipment are classified in industry 3549; those primarily manufacturing machine tools for metal cutting and metal forming (including home workshop tools) which are not supported in the hands of an operator, are classified in industries 3541 and 3542; and those primarily manufacturing power-driven heavy construction or mining handtools in SIC group 353.

3547 Rolling Mill Machinery and Equipment.—

Establishments primarily engaged in manufacturing rolling mill machinery and processing equipment for metal production such as cold forming mills, structural mills, and finishing equipment.

3549 Metalworking Machinery, Not Elsewhere Classified.—

Establishments primarily engaged in manufacturing metalworking machinery, not elsewhere classified, such as gas cutting and welding equipment, wire fabricating machinery and equipment, except wire-drawing dies, and automotive maintenance machinery and equipment. Establishments primarily engaged in manufacturing metal-cutting machine tools are classified in industry 3541; metal-forming machine tools in industry 3542; power-driven handtools in industry 3546; and rolling mill machinery in industry 3547.

355 SPECIAL INDUSTRY MACHINERY, EXCEPT METALWORKING MACHINERY

3551 Food Products Machinery.—Establishments primarily engaged in manufacturing machinery for use by the

food products and beverage manufacturing industries in the preparation, canning, or packaging of food products; and parts and attachments for such machinery. Establishments primarily engaged in manufacturing industrial refrigeration machinery are classified in SIC group 358.

3552 Textile Machinery.—

Establishments primarily engaged in manufacturing machinery for the textile industries, including parts, attachments, and accessories. Establishments primarily engaged in manufacturing domestic or industrial sewing machines are classified in industry 3636.

3553 Woodworking Machinery.—

Establishments primarily engaged in manufacturing machinery for sawmills, planing mills, cabinet and furniture makers, pattern-makers, and veneer workers. Establishments primarily engaged in manufacturing handtools such as planes, axes, drawknives, and handsaws are classified in SIC group 342; and portable power-driven handtools in industry 3546.

3554 Paper Industries Machinery.—

Establishments primarily engaged in manufacturing machinery for the pulp, paper, and paper product industries. Establishments primarily engaged in manufacturing printing trades machinery are classified in industry 3555.

3555 Printing Trades Machinery and Equipment.—

Establishments primarily engaged in manufacturing machinery and equipment used by the printing and bookbinding trades. Establishments primarily engaged in manufacturing textile printing machinery are classified in industry 3552.

3559 Special Industry Machinery, Not Elsewhere Classified.—

Establishments primarily engaged in manufacturing special industry machinery, not elsewhere classified, such as smelting and refining equipment, cementmaking, clayworking, cotton ginning, glass-making, hatmaking, incandescent lampmaking, leatherworking, paintmaking, rubberworking, cigar and cigarette making, tobacco working, shoemaking, and stoneworking machinery.

356 GENERAL INDUSTRIAL MACHINERY AND EQUIPMENT

3561 Pumps and Pumping Equipment.—Establishments primarily engaged in manufacturing pumps and pumping equipment for general industrial use. Establish-

ments primarily engaged in manufacturing measuring and dispensing pumps for gasoline service station use are classified in industry 3586; and air and gas compressors in industry 3563.

3562 Ball and Roller Bearings.—Establishments primarily engaged in manufacturing ball and roller bearings (including ball or roller bearing pillow block, flange, take-up cartridge, and hanger units) and parts. Establishments primarily engaged in manufacturing bearings, except ball and roller, are classified in industry 3568.

3563 Air and Gas Compressors.—Establishments primarily engaged in manufacturing air and gas compressors for general industrial use. Establishments primarily engaged in manufacturing refrigeration compressors and compressing units are classified in industry 3585; and pumps and pumping equipment in industry 3561.

3564 Blowers and Exhaust and Ventilation Fans.—Establishments primarily engaged in manufacturing industrial and commercial blowers, industrial and commercial exhaust and ventilating fans, and attic fans. Establishments primarily engaged in manufacturing air-conditioning units are classified in industry 3585, and free air-circulating fans for use on desks, pedestals, or wall brackets as well as household window-type fans and roll-abouts, kitchen and household ventilating and exhaust fans in industry 3634.

3565 Industrial Patterns.—Establishments primarily engaged in manufacturing industrial patterns.

3566 Speed Changers, Industrial High Speed Drives, and Gears.—Establishments primarily engaged in manufacturing speed changers, industrial high-speed drives, and gears. Establishments primarily engaged in manufacturing these items for motor vehicles are classified in industry 3714, and for aircraft in industry 3728.

3567 Industrial Process Furnaces and Ovens.—Establishments primarily engaged in manufacturing industrial process furnaces, ovens, induction and dielectric heating equipment, and related devices.

3568 Mechanical Power Transmission Equipment, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing mechanical power transmission equipment and parts for industrial machinery.

Establishments primarily engaged in manufacturing automotive, tank, and tractor power transmission equipment are classified in industry 3714; aircraft power transmission equipment in industry 3728; ball and roller bearings in industry 3562; and speed changers, industrial high speed drives, and gears in industry 3566.

3569 General Industrial Machinery and Equipment, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing machinery, equipment, and components for general industrial use, and for which no special classification is provided. Machine shops primarily engaged in producing machine and equipment parts, usually on a job or order basis, are classified in industry 3599.

357 OFFICE, COMPUTING, AND ACCOUNTING MACHINES

3572 Typewriters and Office Machines, Not Elsewhere Classified.—The Typewriters Industry includes establishments primarily engaged in manufacturing typewriters and parts, including coded media typewriters and specialized composing typewriters. This industry is combined with the Office Machines, N.E.C., Industry which includes establishments primarily engaged in manufacturing office machines and devices not elsewhere classified. Establishments primarily engaged in manufacturing computing machines are classified in industry 3573, cash registers in industry 3574, and photocopy and microfilm equipment in industry 3861 (Photographic Equipment and Supplies).

The classification of establishments for which data are tabulated in this report is based upon the definitions and coding structure contained in the 1972 edition of the Standard Industrial Classification (SIC) Manual, published by the Office of Management and Budget, Executive Office of the President. The statistics for these industries as classified under the 1972 edition of the SIC manual were unchanged as to code number or content from the previous classification system. However, it was necessary to combine industry 3572, Typewriters, with industry 3579, Office Machines, N.E.C., to avoid disclosing the operation of individual companies.

3573 Electronic Computing Equipment.—Establishments primarily engaged in manufacturing electronic computers and peripheral equipment and/or major

logical components intended for use in electronic computer systems. Included are general-purpose electronic analog computers, electronic digital computers, military, ruggedized, and special purpose computers. The electronic computers may be used for data processing or may be incorporated as components of control equipment for industrial use, and as components of equipment used in weapons and weapons systems, space and oceanographic exploration, and transportation and other systems. Electronic computer systems contain high-speed arithmetic and program control units, on-line information storage devices, input/output equipment, terminals, data communication devices, and punched card equipment. Examples of input/output equipment are converters (card and/or tape) and readers and printers. Examples of storage devices are magnetic drums and disks magnetic cores and magnetic film memories. In addition to providing technical manuals necessary for the operation and maintenance of the equipment, establishments in this industry usually furnish general-purpose computer programs and basic operating systems programs needed for effective use of the computer system. Establishments primarily producing rebuilt electronic computers are also included in this industry. Establishments primarily engaged in manufacturing desk calculators, cash registers, accounting machines and similar equipment that are operator-paced are classified in industry 3574; electrical and electronic test equipment in industry 3825; industrial controls, including electronic, in industry 3622; and industrial process instruments in industry 3823.

3574 Calculating and Accounting Machines, Except Electronic Computing Equipment.—Establishments primarily engaged in manufacturing desk calculators, adding and accounting machines, cash registers, and similar equipment. Included are electronic calculating and accounting machines which, even when augmented by attachments or which include program control or have input/output capabilities, must be paced by operator intervention. Establishments primarily engaged in manufacturing electronic computing equipment are classified in industry 3573; typewriters in industry 3572; and office duplicating machines and devices, autographic registers, and other office machines in industry 3579.

3576 Scales and Balances, Except Laboratory.—Establishments primarily engaged in manufacturing weighing and force measuring machines and devices of all

types, except those regarded as scientific apparatus for laboratory and experimental work, which are classified in industry 3811.

3579 Typewriters and Office Machines, Not Elsewhere Classified.—(See 3572.)

358 REFRIGERATION AND SERVICE INDUSTRY MACHINERY

3581 Automatic Merchandising Machines.—Establishments primarily engaged in manufacturing automatic merchandising units, also referred to as vending machines (excluding music, amusement, or gaming machines), and coin-operated mechanisms for such machines.

3582 Commercial Laundry, Dry Cleaning, and Pressing Machines.—Establishments primarily engaged in manufacturing laundry and dry cleaning equipment and pressing machines for commercial and industrial use. Establishments primarily engaged in manufacturing household laundry equipment, including coin-operated washers and driers, are classified in industry 3633.

3585 Air-Conditioning and Warm-Air Heating Equipment and Commercial and Industrial Refrigeration Equipment.—Establishments primarily engaged in manufacturing refrigeration equipment and systems and similar equipment for commercial and industrial use; complete air-conditioning units for domestic, commercial, and industrial use; and warm-air furnaces, except electric. Establishments primarily engaged in manufacturing soda fountains and beer dispensing equipment and humidifiers and dehumidifiers, except for rooms, are also classified in this industry. Establishments primarily engaged in manufacturing household refrigerators and home and farm freezers are classified in industry 3632; electric air space heaters in industry 3634; and electric warm-air furnaces and other electric comfort heating equipment in industry 3699.

3586 Measuring and Dispensing Pumps.—Establishments primarily engaged in manufacturing measuring and dispensing pumps commonly used in service and filling stations for dispensing gasoline, oil, and grease, including grease guns. Establishments primarily engaged in manufacturing pumps and pumping equipment for general industrial use are classified in industry 3561.

3589 Service Industry Machines, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing machines and equipment, not elsewhere classified, for use in service industries, such as floor sanding machines, industrial vacuum cleaners, scrubbing machines, commercial cooking and food warming equipment, and commercial dishwashing machines. Establishments primarily engaged in manufacturing household electrical appliances are classified in group 363.

359 MISCELLANEOUS MACHINERY, EXCEPT ELECTRICAL

3592 Carburetors, Pistons, Piston Rings, and Valves.—Establishments primarily engaged in manufacturing carburetors, pistons, piston rings, and valves. Establishments primarily engaged in manufacturing metallic packing are classified in industry 3293; and those primarily engaged in manufacturing machine repair and equipment parts (except electric), on a job or order basis for others, are classified in industry 3599.

3599 Machinery, Except Electrical, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing machinery and parts except electrical, not elsewhere classified, such as amusement park equipment, pneumatic and hydraulic cylinders, and flexible metal hose and tubing. This industry also includes establishments primarily engaged in producing or repairing machine and equipment parts, not elsewhere classified, on a job or order basis for others.

36 ELECTRICAL AND ELECTRONIC MACHINERY, EQUIPMENT, AND SUPPLIES

This major group includes establishments engaged in manufacturing machinery, apparatus, and supplies for the generation, storage, transmission, transformation, and utilization of electrical energy. The manufacture of household appliances is included in this group, but industrial machinery and equipment powered by built-in or detachable electric motors is classified in SIC Major Group 35. Establishments primarily engaged in manufacturing instruments for indicating, measuring, and recording electrical quantities are classified in industry 3825.

361 ELECTRIC TRANSMISSION AND DISTRIBUTION EQUIPMENT

3612 Power, Distribution, and Specialty Transformers.—Establishments primarily engaged in manufacturing power, distribution, instrument, and specialty transformers. Establishments primarily engaged in manufacturing radio frequency or voice frequency transformers, coils, or chokes are classified in industry 3677, and resistance welder transformers in industry 3623.

3613 Switchgear and Switchboard Apparatus.—Establishments primarily engaged in manufacturing switchgear and switchboard apparatus. Important products of this industry include power switches, circuit breakers, power switching equipment, and similar switchgear for general industrial application; switchboards and cubicles, control and metering panels, power fuse mountings, and similar switchboard apparatus and supplies. Establishments primarily engaged in manufacturing industrial controls are classified in industry 3622, and those manufacturing current-carrying wiring devices in industry 3643.

362 ELECTRICAL INDUSTRIAL APPARATUS

3621 Motors and Generators.—Establishments primarily engaged in manufacturing electric motors (except starting motors) and power generators; motor generator sets; railway motors and control equipment; and motors, generators, and control equipment for gasoline, electric, and oil-electric buses and trucks. Establishments primarily engaged in manufacturing turbo-generators are classified in industry 3511, and starting motors and battery charging generators for internal combustion engines in industry 3694.

3622 Industrial Controls.—Establishments primarily engaged in manufacturing motor starters and controllers; control accessories, electronic controls, and other industrial controls. Establishments primarily engaged in manufacturing automatic temperature controls are classified in industry 3822, and industrial process instruments in industry 3823.

3623 Welding Apparatus, Electric.—Establishments primarily engaged in manufacturing electric welding apparatus and accessories. Establishments primarily engaged in coating welding wire from purchased wire or from wire drawn in the same establishment are also included. Establishments primarily engaged

in manufacturing gas welding apparatus are classified in industry 3549, and laser, electron beam, and ultrasonic welding machines and equipment in industry 3662.

3624 Carbon and Graphite Products.—Establishments primarily engaged in manufacturing lighting carbons; carbon, graphite, and metal-graphite brushes and brush stock; carbon or graphite electrodes for thermal and electrolytic uses; and other carbon, graphite, and metal-graphite products.

3629 Electrical Industrial Apparatus, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing industrial and commercial electric apparatus and equipment, not elsewhere classified, such as blasting machines, and fixed and variable capacitors, condensers, and rectifiers for industrial applications. Establishments primarily engaged in manufacturing condensers, capacitors, and rectifiers for electronic end products are classified in SIC group 367.

363 HOUSEHOLD APPLIANCES

3631 Household Cooking Equipment.—Establishments primarily engaged in manufacturing household cooking equipment, such as stoves, ranges, and ovens, including both electric and nonelectric types. Establishments primarily engaged in manufacturing household cooking appliances, such as hot plates, grills, percolators, and toasters, are classified in industry 3634. Establishments primarily engaged in manufacturing commercial cooking equipment are classified in industry 3589.

3632 Household Refrigerators and Home and Farm Freezers.—Establishments primarily engaged in manufacturing household refrigerators and home and farm freezers. Establishments primarily engaged in manufacturing commercial and industrial refrigeration equipment, packaged room coolers, and all refrigeration compressor and condenser units are classified in industry 3585, and room dehumidifiers are classified in industry 3634.

3633 Household Laundry Equipment.—Establishments primarily engaged in manufacturing laundry equipment, such as washing machines, wringers, driers, and ironers, for household use. This industry also includes coin-operated washers and driers. Establishments primarily engaged in manufacturing commercial laundry equipment are classified in industry 3582.

3634 Electric Housewares and Fans.—Establishments primarily engaged in manufacturing electric housewares for heating, cooking, and other purposes; and electric fans, including ventilating and exhaust household-type fans. Important products of this industry include electric air heaters, electrically heated bed coverings, blenders, broilers, deep-fat fryers, flat irons, food mixers, hot plates, percolators and coffeemakers, roasters, toasters, desk and bracket fans, hassock or floor fans, window-type propeller fans, roll-about fans and household and kitchen ventilating and exhaust fans. Establishments primarily engaged in manufacturing industrial and commercial blowers, industrial and commercial exhaust and ventilating fans, and attic fans are classified in industry 3564.

3635 Household Vacuum Cleaners.—Establishments primarily engaged in manufacturing vacuum cleaners for household use. Establishments primarily engaged in manufacturing vacuum cleaners for industrial use are classified in industry 3589, and built-in vacuum cleaner systems in industry 1796.

3636 Sewing Machines.—Establishments primarily engaged in manufacturing sewing machines for domestic and industrial use.

3639 Household Appliances, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing household appliances, not elsewhere classified, such as water heaters, dishwashers, and food waste disposal units.

364 ELECTRIC LIGHTING AND WIRING EQUIPMENT

3641 Electric Lamps.—Establishments primarily engaged in manufacturing electric bulbs, tubes, and related light sources. Important products of this industry include incandescent filament lamps, vapor and fluorescent lamps, photoflash and photoflood lamps, electrotherapeutic lamp units for ultra-violet and infra-red radiation, and other electric light sources. Establishments primarily engaged in manufacturing glass blanks for bulbs are classified in industry 3229; and lamp components, such as supports, filaments, lead-in wires, and cold cathode fluorescent lamp electrodes, in industry 3699.

3643 Current-Carrying Wiring Devices.—Establishments primarily engaged in manufacturing current-carrying wiring devices. Important products of this industry include attachment plugs and caps, convenience outlets, lamp sockets and receptacles, snap switches, conductor connectors, overhead trolley line material, rail bonds for both propulsion and signal circuits, lightning arrestors, and other lightning protective equipment.

3644 Noncurrent-Carrying Wiring Devices.—Establishments primarily engaged in manufacturing noncurrent-carrying wiring devices. Important products of this industry include conduits and fittings; electrical insulators and insulation materials, except porcelain insulators (industry 3264) and glass insulators (industry 3229); outlet, switch and fuse boxes; and pole line hardware.

3645 Residential Electric Lighting Fixtures.—Establishments primarily engaged in manufacturing residential electric lighting fixtures and equipment, fixed or portable. Establishments primarily engaged in producing glassware for lighting fixtures are classified in SIC Major Group 32; electric light bulbs, tubes, and related light sources in industry 3641; lampshades except glass and metal in industry 3999; and non-electric fixtures and portable electric flashlights, lanterns, and similar lamps in industry 3648.

3646 Commercial, Industrial, and Institutional Electric Lighting Fixtures.—Establishments primarily engaged in manufacturing commercial, industrial, and institutional electric lighting fixtures. Establishments primarily engaged in producing glassware for lighting fixtures are classified in SIC Major Group 32; residential lighting fixtures in industry 3645; and vehicular lighting fixtures in industry 3647.

3647 Vehicular Lighting Equipment.—Establishments primarily engaged in manufacturing vehicular lighting equipment.

3648 Lighting Equipment, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing lighting fixtures and equipment, electric and non-electric, not elsewhere classified, including flashlights and similar portable lamps, searchlights, ultraviolet lamp fixtures, and infra-red lamp fixtures. Establishments primarily engaged in manufacturing electric light bulbs, tubes, and related light sources are classified in industry 3641, and those producing glassware for lighting fixtures are classified in SIC Major Group 32.

365 RADIO AND TELEVISION RECEIVING EQUIPMENT, EXCEPT COMMUNICATION TYPES

3651 Radio and Television Receiving Sets, Except Communication Types.—Establishments primarily engaged in manufacturing electronic equipment for home entertainment, including auto radios and tape players. This industry also includes establishments primarily engaged in manufacturing public address systems and music distribution apparatus. Establishments primarily engaged in manufacturing phonograph records and prerecorded tape are classified in industry 3652. Establishments primarily engaged in manufacturing separate cabinets for home electronic equipment are classified in SIC Major Group 25.

3652 Phonograph Records and Prerecorded Magnetic Tape.—Establishments primarily engaged in manufacturing phonograph records and prerecorded magnetic tape. Establishments primarily engaged in manufacturing electronic equipment for home entertainment, except records and prerecorded magnetic tape, are classified in industry 3651.

366 COMMUNICATION EQUIPMENT

3661 Telephone and Telegraph Apparatus.—Establishments primarily engaged in manufacturing wire telephone and telegraph equipment and parts especially designed for telephone and telegraph use.

3662 Radio and Television Transmitting, Signaling, and Detection Equipment and Apparatus.—Establishments primarily engaged in manufacturing (1) radio and television broadcasting equipment; (2) electric communication equipment and parts, except telephone and telegraph; (3) electronic field detection apparatus, light and heat emission operating apparatus, object detection apparatus and navigational electronic equipment, and aircraft and missile control systems; (4) high-energy particle accelerator systems and equipment designed and sold as a complete package for radiation therapy, irradiation, radiographic inspection, and research (linear accelerators, betatrons, dynamotrons, Vandergraff generators, resonant transformers, insulating core transformers, etc.); (5) high-energy particle electronic equipment and accessories sold separately for the construction of linear accelerators, cyclotrons, synchrotrons, and other high-energy research installations (transmitters/modulators, accelerating wave-

guide structures, pulsed electron guns, vacuum systems, cooling systems, etc.); and (6) other electric and electronic communication and signaling products not elsewhere classified. Establishments primarily engaged in manufacturing transmitting tubes are classified in industry 3673.

367 ELECTRONIC COMPONENTS AND ACCESSORIES

3671 Radio and Television Receiving-Type Electron Tubes, Except Cathode Ray.—Establishments primarily engaged in manufacturing radio and television receiving-type electron tubes, except cathode ray tubes. Establishments primarily engaged in manufacturing television receiving-type cathode ray tubes are classified in industry 3672; transmitting tubes in industry 3673; and X-ray tubes in industry 3693.

3672 Cathode Ray Television Picture Tubes.—Establishments primarily engaged in manufacturing television receiving-type cathode ray tubes. Establishments primarily engaged in manufacturing other radio and television receiving-type electron tubes are classified in industry 3671; and transmitting tubes in industry 3673.

3673 Transmitting, Industrial, and Special Purpose Electron Tubes.—Establishments primarily engaged in manufacturing transmitting, industrial, and special purpose electron tubes. Establishments primarily engaged in manufacturing radio and television receiving tubes are classified in industry 3671; television receiving-type cathode ray tubes in industry 3672; and X-ray tubes in industry 3693.

3674 Semiconductors and Related Devices.—Establishments primarily engaged in manufacturing semiconductor and related solid state devices, such as semiconductor diodes and stacks, including rectifiers, integrated microcircuits (semiconductor networks), transistors, solar cells, and light sensing and emitting semiconductor (solid state) devices.

3675 Electronic Capacitors.—Establishments primarily engaged in manufacturing electronic capacitors.

3676 Resistors, for Electronic Applications.—Establishments primarily engaged in manufacturing resistors for electronic end products. Establishments primarily engaged in manufacturing resistors for telephone and telegraph apparatus are classified in industry 3661.

3677 Electronic Coils, Transformers, and Other Inductors.—Establishments primarily engaged in manufacturing electronic coils, transformers, and inductors. Establishments primarily engaged in manufacturing transformers and inductors for telephone and telegraph apparatus are classified in industry 3661; electric lamps in industry 3641; and semiconductor (solid state) and related devices in industry 3674.

3678 Connectors, for Electronic Applications.—Establishments primarily engaged in manufacturing electronic connectors. Establishments primarily engaged in manufacturing electronic capacitors are classified in industry 3675; and electronic coils, transformers, and other inductors in industry 3677.

3679 Electronic Components, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing electronic components, not elsewhere classified, such as receiving antennas, printed circuits, switches, and wave guides.

369 MISCELLANEOUS ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES

3691 Storage Batteries.—Establishments primarily engaged in manufacturing storage batteries.

3692 Primary Batteries, Dry and Wet.—Establishments primarily engaged in manufacturing primary batteries, dry or wet.

3693 Radiographic X-ray, Fluoroscopic X-ray, Therapeutic X-ray, and Other X-ray Apparatus and Tubes; Electromedical and Electrotherapeutic Apparatus.—Establishments primarily engaged in manufacturing radiographic X-ray, fluoroscopic X-ray, and therapeutic X-ray apparatus and tubes for medical, industrial, research and control applications. This industry also includes establishments primarily engaged in manufacturing electromedical and electrotherapeutic apparatus except electrotherapeutic lamp units for ultra-violet and infra-red radiation (industry 3641). Establishments primarily engaged in manufacturing radio receiving-type tubes are classified in industry 3671; television receiving cathode ray tubes in industry 3672; and transmitting tubes in industry 3673.

3694 Electrical Equipment for Internal Combustion Engines.—Establishments primarily engaged in manufacturing electrical equipment for internal combustion engines. Important products of this industry

include armatures, starting motors, alternators, and generators for automobiles and aircraft; and ignition apparatus for internal combustion engines, including spark plugs, magnetos, coils, and distributors.

- 3699 Electrical Machinery, Equipment, and Supplies, Not Elsewhere Classified.**—Establishments primarily in manufacturing electrical machinery, equipment, and supplies, not elsewhere classified, such as appliance and extension cords, bells and chimes, and insect traps.

37 TRANSPORTATION EQUIPMENT

This major group includes establishments engaged in manufacturing equipment for transportation of passengers and cargo by land, air, and water. Important products produced by establishments classified in this major group include motor vehicles, aircraft, guided missiles and space vehicles, ships, boats, railroad equipment, and miscellaneous transportation equipment such as motorcycles, bicycles, and snowmobiles. Establishments primarily engaged in manufacturing mobile homes are classified in industry 2451.

371 MOTOR VEHICLES AND MOTOR VEHICLE EQUIPMENT

- 3711 Motor Vehicles and Car Bodies.**—This industry comprises establishments primarily engaged in the manufacture of passenger cars, passenger car bodies, trucks, buses, and wheeled combat vehicles. Complete car chassis and complete truck chassis, with or without cab, are also included in this industry. Establishments primarily engaged in the manufacture of trucks or buses on purchased chassis are classified in industry 3713; tanks, self-propelled weapons, and other military vehicles in industry 3795; and motor homes produced on purchased chassis in industry 3716.
- 3713 Truck and Bus Bodies.**—Establishments primarily engaged in manufacturing truck and bus bodies for sale separately or for assembly on purchased chassis. Establishments primarily engaged in manufacturing complete trucks and buses are classified in industry 3711, stamped body parts for trucks and buses in industry 3465, and truck trailers and demountable cargo containers in industry 3715.
- 3714 Motor Vehicle Parts and Accessories.**—Establishments primarily engaged in manufacturing motor vehicle

parts and accessories, but not engaged in manufacturing complete motor vehicles or passenger car bodies. Establishments primarily engaged in manufacturing or assembling complete automobiles and trucks are classified in industry 3711, tires and tubes in industry 3011, automobile glass in SIC Major Group 32, automobile stampings in industry 3465, ignition systems in industry 3694, storage batteries in industry 3691, and carburetors, pistons, rings, and valves in industry 3592.

- 3715 Truck Trailers.**—Establishments primarily engaged in manufacturing truck trailers, truck trailer chassis for sale separately, detachable trailer bodies (cargo containers) for sale separately, and detachable trailer (cargo container) chassis for sale separately.

- 3716 Motor Homes Produced on Purchased Chassis.**—This industry comprises establishments primarily engaged in the manufacture of motor homes produced on purchased chassis. Establishments primarily engaged in the manufacture of motor homes produced on chassis of own manufacture are classified in industry 3711.

The Motor Homes Produced on Purchased Chassis is included for the first time in the 1977 census.

372 AIRCRAFT AND PARTS

- 3721 Aircraft.**—Establishments primarily engaged in manufacturing or assembling complete aircraft. This industry also includes establishments primarily engaged in research and development on aircraft or in factory-type aircraft modification on a contract or fee basis. Establishments primarily engaged in manufacturing engines, propellers, and other aircraft parts and auxiliary equipment are classified in industries 3724 and 3728; and those producing guided missiles and space vehicles and parts are classified in SIC group 376.
- 3724 Aircraft Engines and Engine Parts.**—Establishments primarily engaged in manufacturing aircraft engines and engine parts. Research and development on aircraft engines is included in this industry. Establishments primarily engaged in manufacturing guided missile and space vehicle propulsion units and parts are classified in industry 3764.
- 3728 Aircraft Parts and Auxiliary Equipment, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing aircraft parts and auxiliary equip-

ment not elsewhere classified. Research and development on aircraft parts is included in this industry. Establishments primarily engaged in manufacturing or assembling complete aircraft are classified in industry 3721, aircraft engines and parts in industry 3724, aeronautical instruments in industry 3811, aeronautical electrical equipment in industry 3694, and guided missile and space vehicle parts and auxiliary equipment in industry 3769.

373 SHIP AND BOAT BUILDING AND REPAIRING

3731 Ship Building and Repairing.—Establishments primarily engaged in building and repairing all types of ships, barges, and lighters, whether propelled by sail or motor power or towed by other craft. This industry also includes the conversion and alteration of ships. Establishments primarily engaged in fabricating structural assemblies or components for ships, or subcontractors engaged in ship painting, joinery, carpentry work, electrical wiring installation, etc., are classified in other industries.

3732 Boat Building and Repairing.—Establishments primarily engaged in building and repairing all types of boats. Establishments primarily engaged in cleaning and storing boats and in the rental of dock space and yacht clubs are classified in nonmanufacturing industries. Establishments primarily engaged in manufacturing rubber and nonrigid plastic boats are classified in SIC Major Group 30.

374 RAILROAD EQUIPMENT

3743 Railroad Equipment.—Establishments primarily engaged in building and rebuilding locomotives (including frames and parts not elsewhere classified) of any type or gage; and railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service. This industry also includes establishments primarily engaged in manufacturing trackless trolley buses. Establishments primarily engaged in manufacturing mining cars are classified in industry 3532. Repair shops, owned and operated by railroads or local transit companies, rebuilding or repairing locomotives or cars, or building new locomotives or cars for their own account, are classified in SIC Major Groups 40 and 41.

375 MOTORCYCLES, BICYCLES, AND PARTS

3751 Motorcycles, Bicycles, and Parts.—Establishments primarily engaged in manufacturing motorcycles, bicycles, and similar equipment and parts. Establishments primarily engaged in assembling motorcycles or bicycles from purchased parts are also included in this industry. Establishments primarily engaged in manufacturing children's vehicles, except bicycles, are classified in industry 3944. Establishments primarily engaged in manufacturing golf carts and other similar personnel carriers are classified in industry 3799.

376 GUIDED MISSILES AND SPACE VEHICLES AND PARTS

3761 Guided Missiles and Space Vehicles.—Establishments primarily engaged in manufacturing complete guided missiles and space vehicles. Research and development and other services on or for guided missiles and space vehicles are included in this industry. Establishments primarily engaged in manufacturing guided missile and space vehicle propulsion units and propulsion unit parts are classified in industry 3764; space satellite and guided missile and space vehicle airborne and ground guidance, checkout, and launch electronic systems and components in industry 3662; and guided missile and space vehicle airframes, nose cones, and space capsules in industry 3769.

3764 Guided Missile and Space Vehicle Propulsion Units and Propulsion Unit Parts.—Establishments primarily engaged in manufacturing guided missile propulsion units and propulsion unit parts. Research and development on guided missile and space vehicle propulsion units and propulsion unit parts is also included in this industry.

3769 Guided Missile and Space Vehicle Parts and Auxiliary Equipment, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing guided missile and space vehicle parts and auxiliary equipment not elsewhere classified. Research and development on guided missile and space vehicle parts and auxiliary equipment, not elsewhere classified, is also included in this industry. Establishments primarily engaged in manufacturing navigational and guidance systems are classified in industry 3662.

379 MISCELLANEOUS TRANSPORTATION EQUIPMENT

3792 Travel Trailers and Campers.—Establishments primarily engaged in manufacturing travel trailers for attachment to passenger cars or other vehicles, pickup coaches (campers) or caps (covers) for mounting on pickup trucks and self-contained motor homes. Travel trailers are generally 35 feet long or less, 8 feet wide or less, and have storage facilities for water and waste. Establishments primarily engaged in manufacturing mobile homes are classified in industry 2451.

3795 Tanks and Tank Components.—Establishments primarily engaged in manufacturing or assembling complete tanks and specialized components for tanks. Establishments primarily engaged in manufacturing military vehicles other than tanks are classified in SIC group 371, and tank engines in industry 3519.

3799 Transportation Equipment, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing transportation equipment not elsewhere classified. Establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, and stackers are classified in industry 3537, and children's vehicles except bicycles in industry 3944.

38 MEASURING, ANALYZING, AND CONTROLLING INSTRUMENTS; PHOTOGRAPHIC, MEDICAL, AND OPTICAL GOODS; WATCHES AND CLOCKS

This major group includes establishments engaged in manufacturing instruments (including professional and scientific) for measuring, testing, analyzing, and controlling, and their associated sensors and accessories; optical instruments and lenses; surveying and drafting instruments; surgical, medical, and dental instruments, equipment, and supplies; ophthalmic goods; photographic equipment and supplies; and watches and clocks.

381 ENGINEERING, LABORATORY, SCIENTIFIC, AND RESEARCH INSTRUMENTS AND ASSOCIATED EQUIPMENT

3811 Engineering, Laboratory, Scientific, and Research Instruments and Associated Equipment.—Establishments primarily engaged in manufacturing engineering, laboratory, and scientific instruments, including nautical, navigational, aeronautical, surveying, and

drafting equipment and instruments for laboratory work and scientific research (except optical instruments—industry 3832). Establishments primarily engaged in manufacturing surgical and medical instruments are classified in industry 3841; dental instruments and equipment in industry 3843; measuring, analyzing, and controlling instruments, including instruments for measuring electrical quantities and characteristics, in SIC group 382; watches and clocks in industry 3873; machinists' precision measuring tools in industry 3545; and measuring and dispensing pumps in industry 3586.

382 MEASURING AND CONTROLLING INSTRUMENTS

3822 Automatic Controls for Regulating Residential and Commercial Environments and Appliances.—Establishments primarily engaged in manufacturing temperature and related controls for heating and air-conditioning installations and refrigeration applications, which are electrically, electronically, or pneumatically actuated, and which measure and control variables such as temperature and humidity; and automatic regulators used as components of household appliances. Establishments primarily engaged in manufacturing industrial process controls are classified in industry 3823; motor control switches in industry 3622, switches for household appliances in industry 3643, and appliance timers in industry 3873.

3823 Industrial Instruments for Measurement, Display, and Control of Process Variables; and Related Products.—Establishments primarily engaged in manufacturing industrial instruments and related products for measuring, displaying (indicating and/or recording), transmitting, and controlling process variables in manufacturing, energy conversion, and public service utilities. These instruments operate mechanically, pneumatically, electronically, or electrically to measure process variables such as temperature, humidity, pressure, vacuum, combustion, flow, level, viscosity, density, acidity, alkalinity, specific gravity, gas and liquid concentration, sequence, time interval, mechanical motion, and rotation. Establishments primarily engaged in manufacturing electrical integrating meters are classified in industry 3825; residential and commercial comfort controls in industry 3822; all liquid-in-glass and bimetal thermometers and glass hydrometers in industry 3829; recorder charts in SIC group 275, and optical instruments in industry 3832.

3824 Totalizing Fluid Meters and Counting Devices.—

Establishments primarily engaged in manufacturing totalizing (registering) meters, monitoring fluid flows, such as watermeters and gasmeters; and producers of mechanical and electromechanical counters and associated metering devices. Establishments primarily engaged in manufacturing electricity integrating meters and electronic frequency counters are classified in industry 3825; and industrial process instruments in industry 3823.

3825 Instruments for Measuring and Testing of Electricity and Electrical Signals.—

Establishments primarily engaged in manufacturing instruments for measuring the characteristics of electricity and electrical signals, such as voltmeters, ammeters, watt-meters, watt-hour meters, demand meters, and equipment for testing the electrical characteristics of electrical, radio, and communication circuits and of internal combustion engines. Establishments primarily engaged in the manufacturing of electronic check-out, monitoring, evaluating, and other electronic support equipment for electronic navigational, radar, sonar, and other communications systems are classified in industry 3662.

3829 Measuring and Controlling Devices, Not Elsewhere Classified.—

Establishments primarily engaged in manufacturing measuring and controlling devices, not elsewhere classified, including testing instruments to determine the physical properties of materials, nuclear instruments, aircraft engine instruments, and liquid-in-glass and bimetal thermometers.

383 OPTICAL INSTRUMENTS AND LENSES

3832 Optical Instruments and Lenses.—Establishments primarily engaged in manufacturing instruments that measure an optical property; apparatus, except photographic, that projects or magnifies, such as binoculars, prisms, and lenses; optical sighting and fire control equipment; and related analytical instruments. Establishments primarily engaged in manufacturing eyeglass lenses, frames, or fittings are classified in industry 3851; separate computers in industry 3573; and electronic tracking and fire control systems in industry 3662.

384 SURGICAL, MEDICAL, AND DENTAL INSTRUMENTS AND SUPPLIES

3841 Surgical and Medical Instruments and Apparatus.—Establishments primarily engaged in manufacturing

medical, surgical, ophthalmic, and veterinary instruments and apparatus. Establishments primarily engaged in manufacturing surgical and orthopedic appliances are classified in industry 3842; and electrotherapeutic, electromedical, and X-ray apparatus in industry 3693.

3842 Orthopedic, Prosthetic, and Surgical Appliances and Supplies.—

Establishments primarily engaged in manufacturing orthopedic, prosthetic, and surgical appliances and supplies, arch supports, and other foot appliances; fracture appliances, elastic hosiery, abdominal supporters, braces, and trusses; bandages; surgical gauze and dressings; sutures; adhesive tapes and medicated plasters; and personal safety appliances and equipment. Establishments primarily engaged in manufacturing surgical and medical instruments are classified in industry 3841. Establishments primarily engaged in manufacturing appliances and in the personal fitting to the individual prescription of a physician are classified in trade industries.

3843 Dental Equipment and Supplies.—Establishments primarily engaged in manufacturing artificial teeth, dental metals, alloys and amalgams, and a wide variety of equipment, instruments, and supplies used by dentists, dental laboratories, and dental colleges. Dental laboratories constructing artificial dentures, bridges, inlays, and other dental restorations on specifications from dentists are classified in industry 8072.

385 OPHTHALMIC GOODS

3851 Ophthalmic Goods.—Establishments primarily engaged in manufacturing ophthalmic frames, lenses, and sunglass lenses. Establishments primarily engaged in manufacturing slit lamps are classified in industry 3841, and molded glass blanks in industry 3229. Establishments primarily engaged in grinding lenses and fitting glasses to prescription are classified in trade.

386 PHOTOGRAPHIC EQUIPMENT AND SUPPLIES

3861 Photographic Equipment and Supplies.—Establishments primarily engaged in manufacturing (1) photographic apparatus, equipment, parts, attachments, and accessories, such as still and motion

picture cameras and projection apparatus; photocopy and microfilm equipment; blueprinting and diazotype (white printing) apparatus and equipment; and other photographic equipment; and (2) sensitized film, paper, cloth, plates, and prepared photographic chemicals for use therewith. Establishments primarily engaged in manufacturing photographic paper stock (unsensitized), and paper mats, mounts, easels, and folders for photographic use are classified in SIC Major Group 26; photographic lenses in industry 3832; photographic glass in SIC Major Group 32; chemicals for technical purposes, not specifically prepared and packaged for use in photography, in SIC Major Group 28; and photographic flash, flood enlarger, and projection lamps in industry 3641.

387 WATCHES, CLOCKS, CLOCKWORK OPERATED DEVICES, AND PARTS

3873 Watches, Clocks, Clockwork Operated Devices, and Parts.—Establishments primarily engaged in manufacturing clocks (including electric), watches, watchcases, mechanisms for clockwork operated devices, and clock and watch parts. This industry includes establishments primarily engaged in assembling clocks and watches from purchased movements and cases. Establishments primarily engaged in manufacturing time clocks are classified in industry 3579, glass crystals in industry 3231, and unbreakable crystals in industry 3079.

39 MISCELLANEOUS MANUFACTURING INDUSTRIES

This major group includes establishments primarily engaged in manufacturing products not classified in any other manufacturing group. Industries in this group fall into the following categories: Jewelry, silverware and plated ware; musical instruments; toys, sporting and athletic goods; pens, pencils, and other office and artists' materials; buttons, costume novelties, miscellaneous notions; brooms and brushes; caskets; and other miscellaneous manufacturing industries.

391 JEWELRY, SILVERWARE, AND PLATED WARE

3911 Jewelry, Precious Metal.—Establishments primarily engaged in manufacturing jewelry and other articles

worn on or carried about the person, made of precious metals with or without stones (including the setting of stones where used), including cigarette cases and lighters, vanity cases and compacts; trimmings for umbrellas and canes; and jewel settings and mountings. Establishments primarily engaged in manufacturing costume jewelry from nonprecious metals and other materials are classified in industry 3961.

3914 Silverware, Plated Ware, and Stainless Steel Ware.—Establishments primarily engaged in manufacturing flatware (including knives, forks, and spoons), hollowware, toiletware, ecclesiastical ware, and related products made of sterling silver; of metal plated with silver, gold, or other metal; of nickel silver; of pewter; or of stainless steel.

3915 Jewelers' Findings and Materials and Lapidary Work.—Establishments primarily engaged in manufacturing unassembled jewelry parts, and stock shop products such as sheet, wire, and tubing; and establishments of lapidaries primarily engaged in cutting, slabbing, tumbling, carving, engraving, polishing, or faceting stones from natural or manmade precious or semiprecious gem raw materials, either for sale or on a contract basis for the trade; in recutting, repolishing, and setting gem stones; or in cutting, drilling, and otherwise preparing jewels for instruments, dies, watches, chronometers, and other industrial uses. This industry includes the drilling, sawing, and peeling of real or cultured pearls, but does not include the manufacture of artificial pearls (industry 3961).

393 MUSICAL INSTRUMENTS

3931 Musical Instruments.—Establishments primarily engaged in manufacturing pianos, with or without player attachments; organs; other musical instruments; and parts and accessories for musical instruments.

394 TOYS AND AMUSEMENT, SPORTING, AND ATHLETIC GOODS

3942 Dolls.—Establishments primarily engaged in manufacturing dolls, doll parts, and doll clothing. Establishments primarily engaged in manufacturing stuffed toy animals are also included in this industry.

3944 Games, Toys, and Children's Vehicles; Except Dolls and Bicycles.—Establishments primarily engaged in manufacturing games and game sets for adults and children, and mechanical and nonmechanical toys. Important products of this industry include games such as chess, checkers, dominoes, puzzles, and other indoor games; and toys, such as toy furniture, doll carriages and carts, construction sets, mechanical trains, toy guns and air rifles, and other mechanical games and toys; baby carriages and strollers; children's velocipedes and tricycles, coaster wagons, play cars, sleds, and other children's outdoor wheel goods and vehicles, except bicycles (industry 3751). Establishments primarily engaged in manufacturing dolls are classified in industry 3942; and sporting and athletic goods for children and adults in industry 3949.

3949 Sporting and Athletic Goods, Not Elsewhere Classified.—Establishments primarily engaged in manufacturing sporting and athletic goods, not elsewhere classified, such as fishing tackle; golf and tennis goods; baseball, football, basketball, and boxing equipment; roller skates and ice skates; gymnasium and playground equipment; billiard and pool tables; and bowling alleys and equipment. Establishments primarily engaged in manufacturing athletic apparel are classified in SIC Major Group 23, small arms ammunition in industry 3482, and firearms in industry 3484.

395 PENS, PENCILS, AND OTHER OFFICE AND ARTISTS' MATERIALS

3951 Pens, Mechanical Pencils, and Parts.—Establishments primarily engaged in manufacturing pens, pen points, fountain pens, ballpoint pens, refill cartridges, porous-tipped felt tip markers, and parts.

3952 Lead Pencils, Crayons, and Artists' Materials.—Establishments primarily engaged in manufacturing lead pencils, pencil leads, and crayons; and materials and equipment for artwork, such as airbrushes, drawing tables and boards, palettes, sketch boxes, pantographs, artists' colors and waxes, pyrography goods, drawing inks, and drafting materials. Establishments primarily engaged in manufacturing mechanical pencils are classified in industry 3951, and drafting instruments in industry 3811.

3953 Marking Devices.—Establishments primarily engaged in manufacturing rubber and metal hand stamps,

dies, and seals; steel letters and figures; and stencils for use in painting or marking. Establishments primarily engaged in manufacturing felt tip markers are classified in industry 3951.

3955 Carbon Paper and Inked Ribbons.—Establishments primarily engaged in manufacturing carbon paper for business machines, sales books, etc.; spirit or gelatin process and other stencil paper; and inked or carbon ribbons for business machines.

396 COSTUME JEWELRY, COSTUME NOVELTIES, BUTTONS, AND MISCELLANEOUS NOTIONS, EXCEPT PRECIOUS METAL

3961 Costume Jewelry and Costume Novelties, Except Precious Metal.—Establishments primarily engaged in manufacturing costume jewelry, costume novelties, and ornaments made of all materials, except precious metal, precious or semiprecious stones, and rolled gold plate and gold filled materials (industry 3911).

3962 Feathers, Plumes, and Artificial Trees and Flowers.—Establishments primarily engaged in manufacturing artificial trees (including Christmas trees), flowers, fruits, and foliage made from all materials except glass; in producing fancy feathers, plumes, and articles made principally of feathers and plumes. Establishments primarily engaged in manufacturing artificial flowers, fruits, and foliage from glass are classified in industry 3231.

3963 Buttons.—Establishments primarily engaged in manufacturing buttons, button parts, and button blanks and molds, of all materials except precious metal and precious or semiprecious stones (industry 3911).

3964 Needles, Pins, Hooks and Eyes, and Similar Notions.—Establishments primarily engaged in manufacturing notions, such as machine and hand needles, pins, hooks and eyes, eyelets, buckles, and slide and snap fasteners.

399 MISCELLANEOUS MANUFACTURING INDUSTRIES

3991 Brooms and Brushes.—Establishments primarily engaged in manufacturing household, industrial, and street sweeping brooms; and brushes, such as paint-brushes, toothbrushes, toilet brushes, and household and industrial brushes.

- 3993 Signs and Advertising Displays.**—Establishments primarily engaged in manufacturing electrical, mechanical, cutout, or plate signs and advertising displays, including neon signs and advertising novelties. Sign painting shops doing business on a custom basis are classified in industry 7399. Establishments primarily engaged in manufacturing electric signal equipment are classified in industry 3662, and commercial lighting fixtures in industry 3646.
- 3995 Burial Caskets.**—Establishments primarily engaged in manufacturing burial caskets and cases including shipping cases of wood or other material except concrete. Establishments primarily engaged in producing other goods for use by morticians are classified on the basis of the product, such as burial garments in SIC Major Group 23.
- 3996 Linoleum, Asphalted-Felt-Base, and Other Hard-Surface Floor Coverings, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing linoleum, asphalted-felt-base, and other hard-surface floor coverings not elsewhere classified. Establishments primarily engaged in manufacturing rubber floor coverings are classified in industry 3069, and cork floor and wall tile in industry 2499.
- 3999 Manufacturing Industries, Not Elsewhere Classified.**—Establishments primarily engaged in manufacturing miscellaneous fabricated products, including beauty shop and barbershop equipment; hairwork; tobacco pipes and cigarette holders; coin-operated amusement machines; matches; candles; lampshades; dressed and dyed furs; umbrellas; parasols and canes; and other articles not elsewhere classified.

APPENDIX D. Reporting Forms

This appendix contains reproductions of a representative selection of reporting forms used in the 1977 economic censuses, with emphasis on the census of manufactures.

These forms are described in section 7 of the Introduction.

DUE DATE: February 15, 1978

Form Approved: O.M.B. No. 41-R2751

FORM NC-X1 (Items 1-4)
(4-27-77)

NOTICE - Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

Refer to this CENSUS FILE NUMBER in any correspondence pertaining to this report

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 ECONOMIC CENSUSES

REPORT OF ORGANIZATION

CENSUS USE ONLY	Unit No.	Item code	Unit No.	Item code	Unit No.	Item code

(Please correct any errors in name and address including ZIP code)

ACT	GCS	DBC
-----	-----	-----

Important - Please read

Please complete this report by February 15, 1978 and

RETURN YELLOW COPY TO --

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, Indiana 47132

NOTE – Shaded boxes are for Bureau of the Census use only

Item 1 – COMPANY OWNERSHIP OR CONTROL (DOMESTIC)

Does another U.S. (domestic) company own more than 50 percent of the voting stock of your company OR have the power to control the management and policies of your company?

1 ☐ YES - Enter the following information on the owning or controlling company and go to Item 2.

2 ☐ NO - Go to item 2

Name of owning or controlling company	Home office address (<i>Number and street, city, State, and ZIP code</i>)	Employer Identification Number of owning or controlling company
		-

Percent of voting stock owned — Mark (X) one —————→ 1 ☐ Less than 50% 2 ☐ 50% 3 ☐ More than 50%

Item 2 – COMPANY OWNERSHIP OR CONTROL (FOREIGN)

Does a foreign entity (company, individual, government, etc.) own 10 percent or more of the voting stock or other equity rights of your company?

1 ☐ YES - Enter the following information on the owning entity and go to Item 3.

2 ☐ NO - Go to Item 3

Name of owning entity	Home office address (City, country)
-----------------------	-------------------------------------

Percent of ownership - Mark (X) one → 1 ☐ Less than 10% 2 ☐ 10-24% 3 ☐ 25-49% 4 ☐ 50% 5 ☐ 51-99% 6 ☐ 100%

Item 3 – FOREIGN AFFILIATES

Does this enterprise alone, or with its domestic affiliates, own 10 percent or more of the voting stock of an incorporated foreign business enterprise, or an equivalent interest in an unincorporated foreign business enterprise, including ownership of real estate?

1 ☐ YES - Go to Item 4

2 ☐ NO - Go to Item 4

Item 4 – CERTIFICATION

Name of person to contact regarding this report	Address (if different from above address)	Telephone		
		Area code	Number	Extension
This report is substantially accurate.				
Signature of authorized person	Title	Date		

Form NC-X1 (Item 5A) (4-27-77)		U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS		Refer to this CENSUS FILE NUMBER in any correspondence pertaining to this report			
1977 ECONOMIC CENSUSES REPORT OF ORGANIZATION							
Item 5A — ESTABLISHMENTS OF YOUR COMPANY AND ITS SUBSIDIARIES							
This item should include an up-to-date list of all establishments of your company and its subsidiaries, for which separate establishment reports are not required, for the 1977 Economic Censuses. Please correct any errors or omissions in the prelisted information in column (a) and complete columns (b) and (c) as indicated. Estimates are acceptable if book figures are not readily available. Please read the definitions and instructions on the reverse side before completing this item.							
Line No.	(a) Employer Identification (EI) Number, establishment name, address of physical location (including ZIP code), and major activity <i>Add store or plant number, if any, and correct any errors or omissions</i>			(b) 1977 Establishment data <i>Report the number of employees and payroll for each establishment (including part year operations)</i>		(c) Status of establishment at end of 1977 <i>Mark (X) one box and complete as indicated</i>	
	EMPLOYER IDENTIFICATION NO. _____			Employees (during pay period including March 12, 1977) _____ (Number)		1 <input type="checkbox"/> In operation 2 <input type="checkbox"/> Sold or leased → MO DAY YR NAME OF PURCHASER OR LESSEE _____ NUMBER AND STREET _____ CITY _____ STATE _____ ZIP CODE _____ 3 <input type="checkbox"/> Closed (no new owner or operator), dismantled, or destroyed on → MO DAY YR 4 <input type="checkbox"/> Idle or inactive (but still owned) → 5 <input type="checkbox"/> Other — Describe →	
	NAME _____						
	STORE OR PLANT NO. _____						
	NUMBER AND STREET OF PHYSICAL LOCATION _____						
	CITY _____ STATE _____ ZIP _____						
	MAJOR ACTIVITY _____						
Census use only	CENSUS FILE NO. _____	TO _____	IND _____	TAB _____	WT _____	CCS _____ NID _____	
		EMPLOYER IDENTIFICATION NO. _____			Employees (during pay period including March 12, 1977) _____ (Number)		1 <input type="checkbox"/> In operation 2 <input type="checkbox"/> Sold or leased → MO DAY YR NAME OF PURCHASER OR LESSEE _____ NUMBER AND STREET _____ CITY _____ STATE _____ ZIP CODE _____ 3 <input type="checkbox"/> Closed (no new owner or operator), dismantled, or destroyed on → MO DAY YR 4 <input type="checkbox"/> Idle or inactive (but still owned) → 5 <input type="checkbox"/> Other — Describe →
		NAME _____					
		STORE OR PLANT NO. _____					
		NUMBER AND STREET OF PHYSICAL LOCATION _____					
		CITY _____ STATE _____ ZIP _____					
MAJOR ACTIVITY _____							
Census use only	CENSUS FILE NO. _____	TO _____	IND _____	TAB _____	WT _____	CCS _____ NID _____	
		EMPLOYER IDENTIFICATION NO. _____			Employees (during pay period including March 12, 1977) _____ (Number)		1 <input type="checkbox"/> In operation 2 <input type="checkbox"/> Sold or leased → MO DAY YR NAME OF PURCHASER OR LESSEE _____ NUMBER AND STREET _____ CITY _____ STATE _____ ZIP CODE _____ 3 <input type="checkbox"/> Closed (no new owner or operator), dismantled, or destroyed on → MO DAY YR 4 <input type="checkbox"/> Idle or inactive (but still owned) → 5 <input type="checkbox"/> Other — Describe →
		NAME _____					
		STORE OR PLANT NO. _____					
		NUMBER AND STREET OF PHYSICAL LOCATION _____					
		CITY _____ STATE _____ ZIP _____					
MAJOR ACTIVITY _____							
Census use only	CENSUS FILE NO. _____	TO _____	IND _____	TAB _____	WT _____	CCS _____ NID _____	
		EMPLOYER IDENTIFICATION NO. _____			Employees (during pay period including March 12, 1977) _____ (Number)		1 <input type="checkbox"/> In operation 2 <input type="checkbox"/> Sold or leased → MO DAY YR NAME OF PURCHASER OR LESSEE _____ NUMBER AND STREET _____ CITY _____ STATE _____ ZIP CODE _____ 3 <input type="checkbox"/> Closed (no new owner or operator), dismantled, or destroyed on → MO DAY YR 4 <input type="checkbox"/> Idle or inactive (but still owned) → 5 <input type="checkbox"/> Other — Describe →
		NAME _____					
		STORE OR PLANT NO. _____					
		NUMBER AND STREET OF PHYSICAL LOCATION _____					
		CITY _____ STATE _____ ZIP _____					
MAJOR ACTIVITY _____							
Census use only	CENSUS FILE NO. _____	TO _____	IND _____	TAB _____	WT _____	CCS _____ NID _____	

FORM NC-X1 (Item 5B)
(4-27-77)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 ECONOMIC CENSUSES
REPORT OF ORGANIZATION

Item 5B - YOUR LISTING OF ADDITIONAL ESTABLISHMENTS AND SUBSIDIARIES

Column (a) - List separately any establishments of your company and its subsidiaries located in the U.S. or any of its territories which are not accounted for on other report forms in this mailing package.

Instructions for questions (e) and (f) - Answer question (e) for acquired establishments. Complete question (f) entering the date the establishment opened. If not yet in operation, enter the expected opening date and the expected employment.

Column (b) - Complete this column for each listed establishment.

Column (c) - Mark (X) the box which best describes the activity of each establishment.

Column (d) - Describe major activity or list principal products or services.

NOTE: Additional copies of Item 5B are available upon request to Bureau of the Census, 1201 East Tenth Street, Jeffersonville, Indiana 47132. If you prefer, you may use your own paper to list additional establishments; in such instances, however, please follow the same format as shown on the report form. Be sure to enter the item number, your company's name and address, and the Census File Number in the upper right-hand corner of each additional sheet.

DESCRIPTION AND CODES FOR COLUMN (c)

1 - Agricultural production

2 - Agricultural services

3 - Mining

4 - Construction

5 - Merchant wholesalers

6 - Commission agent/broker

7 - Communications

8 - Manufacturers' sales branches, manufacturers' sales offices

9 - Manufacturing

10 - Retail

11 - Retail concessions/departments in retail stores

12 - Transportation and public utilities

13 - Finance, insurance, or real estate

14 - Services

15 - Medical, legal, or educational

16 - Auxiliary establishments primarily providing service to your own or affiliated company rather than customers or clients such as storage warehouses and research laboratories

17 - Central Administrative Office: accounting, purchasing, legal activities for your own company

18 - Other - Specify major activity in column (d) below

Line No.	Employer Identification (EI) Number, establishment name, your store or plant number, if any, and address of physical location (including ZIP code)	1977 establishment data Report number of employees and payroll for each establishment (including part-year operations)	Kind of business activity in 1977 Major activity Mark (X) one box from the above descriptions Description of major activity or principal products or services
	(a)	(b)	(c)
	EMPLOYER IDENTIFICATION NUMBER NAME NUMBER AND STREET OF PHYSICAL LOCATION CITY STATE ZIP CODE (e) Was this establishment acquired from another company? NAME AND ADDRESS OF FORMER OWNER OR OPERATOR (f) Date establishment opened or is expected to open and expected employment.	Employees (during pay period including March 12, 1977) Payroll for 1st quarter of 1977 before deductions Total annual payroll for 1977 before deductions Census use only	10 11 12 13 14 15 16 17 18 SC TO IND FORM TAB WT CCS OID
	EMPLOYER IDENTIFICATION NUMBER NAME NUMBER AND STREET OF PHYSICAL LOCATION CITY STATE ZIP CODE (e) Was this establishment acquired from another company? NAME AND ADDRESS OF FORMER OWNER OR OPERATOR (f) Date establishment opened or is expected to open and expected employment.	Employees (during pay period including March 12, 1977) Payroll for 1st quarter of 1977 before deductions Total annual payroll for 1977 before deductions Census use only	10 11 12 13 14 15 16 17 18 SC TO IND FORM TAB WT CCS OID
	EMPLOYER IDENTIFICATION NUMBER NAME NUMBER AND STREET OF PHYSICAL LOCATION CITY STATE ZIP CODE (e) Was this establishment acquired from another company? NAME AND ADDRESS OF FORMER OWNER OR OPERATOR (f) Date establishment opened or is expected to open and expected employment.	Employees (during pay period including March 12, 1977) Payroll for 1st quarter of 1977 before deductions Total annual payroll for 1977 before deductions Census use only	10 11 12 13 14 15 16 17 18 SC TO IND FORM TAB WT CCS OID
	EMPLOYER IDENTIFICATION NUMBER NAME NUMBER AND STREET OF PHYSICAL LOCATION CITY STATE ZIP CODE (e) Was this establishment acquired from another company? NAME AND ADDRESS OF FORMER OWNER OR OPERATOR (f) Date establishment opened or is expected to open and expected employment.	Employees (during pay period including March 12, 1977) Payroll for 1st quarter of 1977 before deductions Total annual payroll for 1977 before deductions Census use only	10 11 12 13 14 15 16 17 18 SC TO IND FORM TAB WT CCS OID

Form Approved: O.M.B. No. 41-577010

Continued on reverse side

Item 2 - LISTING OF ADDITIONAL ESTABLISHMENTS - Continued											
Employer Identification (EI) Number, establishment name, your store or plant number, if any, and address of physical location (including ZIP code) (a)				Principal activity Mark (X) one box from the above descriptions (b)		Description of products business, services, etc. List in order of importance (c)		Operating status (d)			
EMPLOYER IDENTIFICATION NUMBER				1 <input type="checkbox"/> 10 <input type="checkbox"/>				Date establishment opened or is expected to open			
NAME				2 <input type="checkbox"/> 11 <input type="checkbox"/>				MONTH DAY YEAR APPROXIMATE EMPLOYMENT			
STORE OR PLANT NO.				3 <input type="checkbox"/> 12 <input type="checkbox"/>							
NUMBER AND STREET OF PHYSICAL LOCATION				4 <input type="checkbox"/> 13 <input type="checkbox"/>				Was this establishment acquired from another company?			
CITY				5 <input type="checkbox"/> 14 <input type="checkbox"/>				<input type="checkbox"/> YES <input type="checkbox"/> NO			
STATE				6 <input type="checkbox"/> 15 <input type="checkbox"/>				DATE ACQUIRED			
ZIP CODE				7 <input type="checkbox"/> 16 <input type="checkbox"/>				MONTH DAY YEAR			
Census use only				8 <input type="checkbox"/> 17 <input type="checkbox"/>				NAME AND ADDRESS OF FORMER OWNER OR OPERATOR			
CENSUS FILE NO.				9 <input type="checkbox"/> 18 <input type="checkbox"/>							
EMPLOYER IDENTIFICATION NUMBER				1 <input type="checkbox"/> 10 <input type="checkbox"/>				Date establishment opened or is expected to open			
NAME				2 <input type="checkbox"/> 11 <input type="checkbox"/>				MONTH DAY YEAR APPROXIMATE EMPLOYMENT			
STORE OR PLANT NO.				3 <input type="checkbox"/> 12 <input type="checkbox"/>							
NUMBER AND STREET OF PHYSICAL LOCATION				4 <input type="checkbox"/> 13 <input type="checkbox"/>				Was this establishment acquired from another company?			
CITY				5 <input type="checkbox"/> 14 <input type="checkbox"/>				<input type="checkbox"/> YES <input type="checkbox"/> NO			
STATE				6 <input type="checkbox"/> 15 <input type="checkbox"/>				DATE ACQUIRED			
ZIP CODE				7 <input type="checkbox"/> 16 <input type="checkbox"/>				MONTH DAY YEAR			
Census use only				8 <input type="checkbox"/> 17 <input type="checkbox"/>				NAME AND ADDRESS OF FORMER OWNER OR OPERATOR			
CENSUS FILE NO.				9 <input type="checkbox"/> 18 <input type="checkbox"/>							
EMPLOYER IDENTIFICATION NUMBER				1 <input type="checkbox"/> 10 <input type="checkbox"/>				Date establishment opened or is expected to open			
NAME				2 <input type="checkbox"/> 11 <input type="checkbox"/>				MONTH DAY YEAR APPROXIMATE EMPLOYMENT			
STORE OR PLANT NO.				3 <input type="checkbox"/> 12 <input type="checkbox"/>							
NUMBER AND STREET OF PHYSICAL LOCATION				4 <input type="checkbox"/> 13 <input type="checkbox"/>				Was this establishment acquired from another company?			
CITY				5 <input type="checkbox"/> 14 <input type="checkbox"/>				<input type="checkbox"/> YES <input type="checkbox"/> NO			
STATE				6 <input type="checkbox"/> 15 <input type="checkbox"/>				DATE ACQUIRED			
ZIP CODE				7 <input type="checkbox"/> 16 <input type="checkbox"/>				MONTH DAY YEAR			
Census use only				8 <input type="checkbox"/> 17 <input type="checkbox"/>				NAME AND ADDRESS OF FORMER OWNER OR OPERATOR			
CENSUS FILE NO.				9 <input type="checkbox"/> 18 <input type="checkbox"/>							
EMPLOYER IDENTIFICATION NUMBER				1 <input type="checkbox"/> 10 <input type="checkbox"/>				Date establishment opened or is expected to open			
NAME				2 <input type="checkbox"/> 11 <input type="checkbox"/>				MONTH DAY YEAR APPROXIMATE EMPLOYMENT			
STORE OR PLANT NO.				3 <input type="checkbox"/> 12 <input type="checkbox"/>							
NUMBER AND STREET OF PHYSICAL LOCATION				4 <input type="checkbox"/> 13 <input type="checkbox"/>				Was this establishment acquired from another company?			
CITY				5 <input type="checkbox"/> 14 <input type="checkbox"/>				<input type="checkbox"/> YES <input type="checkbox"/> NO			
STATE				6 <input type="checkbox"/> 15 <input type="checkbox"/>				DATE ACQUIRED			
ZIP CODE				7 <input type="checkbox"/> 16 <input type="checkbox"/>				MONTH DAY YEAR			
Census use only				8 <input type="checkbox"/> 17 <input type="checkbox"/>				NAME AND ADDRESS OF FORMER OWNER OR OPERATOR			
CENSUS FILE NO.				9 <input type="checkbox"/> 18 <input type="checkbox"/>							
EMPLOYER IDENTIFICATION NUMBER				1 <input type="checkbox"/> 10 <input type="checkbox"/>				Date establishment opened or is expected to open			
NAME				2 <input type="checkbox"/> 11 <input type="checkbox"/>				MONTH DAY YEAR APPROXIMATE EMPLOYMENT			
STORE OR PLANT NO.				3 <input type="checkbox"/> 12 <input type="checkbox"/>							
NUMBER AND STREET OF PHYSICAL LOCATION				4 <input type="checkbox"/> 13 <input type="checkbox"/>				Was this establishment acquired from another company?			
CITY				5 <input type="checkbox"/> 14 <input type="checkbox"/>				<input type="checkbox"/> YES <input type="checkbox"/> NO			
STATE				6 <input type="checkbox"/> 15 <input type="checkbox"/>				DATE ACQUIRED			
ZIP CODE				7 <input type="checkbox"/> 16 <input type="checkbox"/>				MONTH DAY YEAR			
Census use only				8 <input type="checkbox"/> 17 <input type="checkbox"/>				NAME AND ADDRESS OF FORMER OWNER OR OPERATOR			
CENSUS FILE NO.				9 <input type="checkbox"/> 18 <input type="checkbox"/>							

Item 3 CERTIFICATION	Name of person to contact regarding this report		Address (if different from label address)		Telephone	
					Area code	Number
					Extension	
This report (including attached continuation pages) is substantially accurate and has been prepared in accordance with instructions.						
Signature of authorized person			Title		Date	

O.M.B. No. 41-S77014: Approval Expires December 31, 1978

Make sure all items on this page have been completed and continue to NEXT PAGE

Item 8 – BUSINESS OR ACTIVITY – Mark (X) the ONE box which best describes the principal activity during the past year.						070	Census use only			
<input type="checkbox"/> AGRICULTURAL PRODUCTION <input type="checkbox"/> MINERALS EXTRACTION OR ORE PROCESSING <input type="checkbox"/> MANUFACTURING <input type="checkbox"/> MOTOR CARRIER (ICC REGULATED) <input type="checkbox"/> MOTOR CARRIER (EXCEPT ICC REGULATED) CONSTRUCTION <input type="checkbox"/> Building construction – General contractor <input type="checkbox"/> Other construction – General contractor <input type="checkbox"/> Special trade contractor (electricians, carpenters, painters, etc.) <input type="checkbox"/> Land developer and subdivider <input type="checkbox"/> Real estate – Specify activity _____						WHOLESALE TRADE <input type="checkbox"/> Merchant wholesaler <input type="checkbox"/> Agent or broker <input type="checkbox"/> Other type of wholesaler – Specify _____ RETAIL TRADE <input type="checkbox"/> Selling at this establishment <input type="checkbox"/> Mail order (catalog selling) <input type="checkbox"/> House-to-house (direct selling) <input type="checkbox"/> Operating merchandise vending machines <input type="checkbox"/> Other type of retailer – Specify _____ <input type="checkbox"/> Other – Specify activity _____				
Item 9 – If "Manufacturing" is marked in item 8, list the primary materials consumed in producing the manufactured products.										
Item 10 – CLASS OF CUSTOMER To whom do you sell most of your products or provide your services?										
<input type="checkbox"/> Retail or wholesale establishments <input type="checkbox"/> Construction contractors <input type="checkbox"/> General public (household consumers and individuals) <input type="checkbox"/> Institutional, industrial, commercial, professional, government, and farm users <input type="checkbox"/> Other – Specify _____										
Item 11 – OWNERSHIP OR CONTROL Enter the company name and address (street name and number, city, State, ZIP code) and EI Number. If more space is needed to list companies, attach a separate sheet.										
a. Is this company owned or controlled by another company?		1 <input type="checkbox"/> YES → 2 <input type="checkbox"/> NO		Owning or controlling company _____ EI No. (9 digits) _____						
b. Does this company own or control any other company or companies?		1 <input type="checkbox"/> YES → 2 <input type="checkbox"/> NO		Owned or controlled company _____ EI No. (9 digits) _____						
Item 12 – LOCATIONS OF OPERATION a. Were the operations under the EI Number shown in the mailing label (or as corrected in item 2) conducted at more than one location during 1977? (Including all selling or service locations and any other facilities such as warehouses, administrative offices, etc.)										
1 <input type="checkbox"/> YES – Answer (b) and (c) 2 <input type="checkbox"/> NO – SKIP to item 13						Number of locations _____				
b. At how many separate locations were these operations conducted during 1977?										
c. List each location – including main location. If more space is needed, attach a separate sheet providing the same information required below.										
Census use only	Physical location of each operation Name, address and ZIP code (a)			1977 sales and receipts and annual and 1st quarter payrolls Totals should equal items 5a and 6a(1) and (2) (b)			Number of paid employees for the pay period including the 12th of each month Totals should equal corresponding entries in item 6b (c)		Primary kind of business or activity of each location Describe (d)	
080	Name			Sales and receipts	081	082	083	084 MAR	085 MAY	088 Census use only
	Number and street of physical location			Total annual payroll				086 AUG	087 NOV	
	City	State	ZIP code	1st quarter payroll						
080	Name			Sales and receipts	081	082	083	084 MAR	085 MAY	088 Census use only
	Number and street of physical location			Total annual payroll				086 AUG	087 NOV	
	City	State	ZIP code	1st quarter payroll						
080	Name			Sales and receipts	081	082	083	084 MAR	085 MAY	088 Census use only
	Number and street of physical location			Total annual payroll				086 AUG	087 NOV	
	City	State	ZIP code	1st quarter payroll						
080	Name			Sales and receipts	081	082	083	084 MAR	085 MAY	088 Census use only
	Number and street of physical location			Total annual payroll				086 AUG	087 NOV	
	City	State	ZIP code	1st quarter payroll						
080	Name			Sales and receipts	081	082	083	084 MAR	085 MAY	088 Census use only
	Number and street of physical location			Total annual payroll				086 AUG	087 NOV	
	City	State	ZIP code	1st quarter payroll						
TOTALS (Sum of entries should equal corresponding entries in items 5a and 6 on page 1)				Sales and receipts				MAR	MAY	
				Total annual payroll				AUG	NOV	
				1st quarter payroll						
Item 13 – CERTIFICATION Name of person to contact regarding this report _____ Telephone _____ Address – Number and street _____ City _____ State _____ ZIP code _____										
This report is substantially accurate and has been prepared in accordance with instructions.						Period covered → From: Mo. | Day | Year To: Mo. | Day | Year				
Signature of authorized person _____						Title _____ Date _____				

PENALTY FOR FAILURE TO REPORT
DUE DATE: FEBRUARY 15, 1978

Form Approved: O.M.B. No. 41-577017

FORM NC-X6 (10-60)	U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS	<p>1977 ECONOMIC CENSUSES CENTRAL ADMINISTRATIVE OFFICE OR AUXILIARY ESTABLISHMENT</p> <p><i>Important</i> - PLEASE READ ALL ACCOMPANYING INSTRUCTIONS</p> <p>Please complete this form and RETURN TO</p> <p style="text-align: center;">BUREAU OF THE CENSUS 1201 East Tenth Street Jeffersonville, Indiana 47132</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Unit No.</td> <td style="width: 15%;">Item code</td> <td style="width: 15%;">Unit No.</td> <td style="width: 15%;">Item code</td> <td style="width: 15%;">Unit No.</td> <td style="width: 15%;">Item code</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> <p style="text-align: right;">Please correct errors in name, address and ZIP code. ENTER street and number if not shown.</p>	Unit No.	Item code	Unit No.	Item code	Unit No.	Item code																								
Unit No.	Item code	Unit No.	Item code	Unit No.	Item code																											
		<p>NOTICE - Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.</p> <p>In correspondence pertaining to this report, please refer to this Census File Number</p> <p style="text-align: center;">NC-X6 (9600)</p> <p style="text-align: right;">Employer Identification Number</p>																														
<p>Item 1 - PHYSICAL LOCATION OF ESTABLISHMENT - In order to assign this establishment to the correct geographic area, the Bureau of the Census must know the actual location which may differ from the mailing address. Complete items a through g.</p> <p>a. Address number and street name of physical location - If not known, enter building name, shopping center name, or other physical location description. Do not enter P.O. box or rural route. Mark (X) for a, b, c, and d if same as mailing label; if different show corrections.</p> <p>Same as mailing label <input type="checkbox"/> OR <input type="checkbox"/></p> <p>b. Name of city, town, village, borough, etc., of physical location</p> <p>Same as mailing label <input type="checkbox"/> OR <input type="checkbox"/></p> <p>c. State <input type="checkbox"/></p> <p>Same as mailing label <input type="checkbox"/> OR <input type="checkbox"/></p> <p>d. ZIP code <input type="checkbox"/></p> <p>Same as mailing label <input type="checkbox"/> OR <input type="checkbox"/></p> <p>e. Type of municipality indicated in 1b</p> <p>1 <input type="checkbox"/> City 4 <input type="checkbox"/> Borough 7 <input type="checkbox"/> Other - Specify _____</p> <p>2 <input type="checkbox"/> Town 5 <input type="checkbox"/> Township</p> <p>Mark (X) one 3 <input type="checkbox"/> Village 6 <input type="checkbox"/> Unincorporated 8 <input type="checkbox"/> Don't know</p> <p>f. Is this establishment located inside the legal boundaries of the city, town, village, etc., indicated in 1b?</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No</p> <p>3 <input type="checkbox"/> No legal boundaries 4 <input type="checkbox"/> Don't know</p> <p>NOTE - The area served by a post office generally does not coincide with the legal boundaries of the municipality from which the post office takes its name.</p> <p>g. Name of county (Louisiana parish) of physical location _____</p>																																
<p>Item 2 - EMPLOYER IDENTIFICATION NUMBER</p> <p>Is the Employer Identification (EI) Number printed in the upper right of the address box the SAME as that used for this establishment on its latest 1977 Employer's Quarterly Federal Tax Return, Treasury Form 941?</p> <p><input type="checkbox"/> YES (9 digits)</p> <p><input type="checkbox"/> NO - Enter current EI number → _____</p>																																
<p>Item 3 - OPERATIONAL STATUS</p> <p>a. Mark (X) the ONE box which best describes this establishment at the end of 1977.</p> <p>001 1 <input type="checkbox"/> In operation</p> <p>2 <input type="checkbox"/> Temporarily or seasonally inactive</p> <p>3 <input type="checkbox"/> Ceased operation - Give date → _____</p> <p>4 <input type="checkbox"/> Sold or leased to another operator } Give date → _____ AND name, etc. → _____</p> <p>Name of new owner or operator _____</p> <p>Number and street _____</p> <p>City _____ State _____ ZIP code _____</p> <p>b. How many months during 1977 did your firm or organization actively operate this establishment?</p> <p>002 _____ Number of months</p>		<p>Item 4 - ORGANIZATIONAL STATUS</p> <p>a. Mark (X) the ONE box which best describes this establishment during 1977.</p> <p>003 1 <input type="checkbox"/> Individual proprietorship</p> <p>2 <input type="checkbox"/> Partnership</p> <p>3 <input type="checkbox"/> Cooperative association</p> <p>4 <input type="checkbox"/> Governmental - Specify _____</p> <p>5 <input type="checkbox"/> Corporation (other than specified above)</p> <p>6 <input type="checkbox"/> Other - Specify _____</p> <p>b. Was all or part of the income of this establishment or organization exempt from Federal income taxes under Section 501 or 521 of the Internal Revenue Code?</p> <p>004 1 <input type="checkbox"/> YES</p> <p>2 <input type="checkbox"/> NO</p>																														
<p>Item 5 - PRINCIPAL ACTIVITIES OF YOUR COMPANY SERVED BY THIS ESTABLISHMENT IN 1977</p> <p>a. Does this establishment perform management, general administrative functions, or other supporting services PRIMARILY for establishments of this company (rather than for other business firms or for the general public)? ("Company" refers to the parent firm and all its subsidiaries under common ownership or control.)</p> <p>050 1 <input type="checkbox"/> YES - Complete items 5b, c, and d</p> <p>2 <input type="checkbox"/> NO - SKIP to item 6</p> <p>b. Does this establishment perform these management administrative functions or services for more than one establishment of this company?</p> <p>051 1 <input type="checkbox"/> YES</p> <p>2 <input type="checkbox"/> NO</p> <p>c. Mark (X) the principal kind of business or industrial activity of the establishments of this company that are managed or serviced by this central office or auxiliary.</p> <p>052 1 <input type="checkbox"/> Manufacturing 4 <input type="checkbox"/> Manufacturer sales branches or other wholesale operations</p> <p>2 <input type="checkbox"/> Construction 5 <input type="checkbox"/> Retail stores</p> <p>3 <input type="checkbox"/> Mining and mineral industries 6 <input type="checkbox"/> Other - Describe _____</p> <p>d. List in order of importance, the principal products made, kinds of retail or wholesale business operated, types of services rendered, or construction activities performed by the establishments that are managed or serviced by this central office or auxiliary.</p> <p>(1) _____</p> <p>(2) _____</p>																																
<p>Important - Please read</p> <p>Dollar figures should be reported as illustrated. Please be careful to enter the figures in the correct columns. See example below:</p> <p>EXAMPLE: If figure is \$1,125,628.28 →</p> <p style="text-align: right;">• PREFERRED method.</p> <p style="text-align: right;">Acceptable method</p>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;">Mil- lions (000)</th> <th style="width: 15%;">Thou- sands (000)</th> <th style="width: 15%;">Dol- lars (000)</th> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">125</td> <td style="text-align: center;">628</td> </tr> </table>	Mil- lions (000)	Thou- sands (000)	Dol- lars (000)	1	125	628																								
Mil- lions (000)	Thou- sands (000)	Dol- lars (000)																														
1	125	628																														
<p>Item 6 - EMPLOYMENT</p> <p>a. Employment by function for pay period including March 12</p> <p>(1) Centralized administration</p> <p>(2) Research, development, and testing</p> <p>(3) Warehousing</p> <p>(4) Electronic data processing</p> <p>(5) Sales to customers directly from this location</p> <p>(6) Trading stamp redemption</p> <p>(7) Other - Specify _____</p> <p>(8) TOTAL employment (Sum of lines (1) through (7))</p> <p>b. Total employment for pay period including the 12th of the following months -</p> <p>(1) May</p> <p>(2) August</p> <p>(3) November</p>		<p>Item 7 - PAYROLL</p> <p>a. TOTAL FIRST QUARTER payroll before deductions</p> <p>b. TOTAL ANNUAL PAYROLL before deductions</p> <p>c. Of the total annual payroll reported in item 7b above, how much was for delivery personnel (including drivers, driver salesmen, etc.), who are engaged in transporting the merchandise of this company, and who are employed at this establishment?</p> <p>Item 8 - EMPLOYER COSTS FOR FRINGE BENEFITS</p> <p>a. Required by law</p> <p>b. Other fringe benefits</p> <p>c. TOTAL fringe benefits (Sum of lines a and b)</p>																														

Please continue on page 2

Item 9 – BILLINGS TO RETAIL STORES OF THIS COMPANY 090 a. Did this establishment have billings to retail stores of this company during 1977? 1 <input type="checkbox"/> YES – Go to b 2 <input type="checkbox"/> NO – SKIP to item 10			Item 13 – DEPRECIATION CHARGES 130 a. Did this establishment maintain depreciation accounts during 1977? 1 <input type="checkbox"/> YES – Go to b 2 <input type="checkbox"/> NO – SKIP to item 14																																	
b. Total billings by this establishment in 1977 to retail stores of this company. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">Mil.</th> <th style="width: 10%;">Thou.</th> <th style="width: 10%;">Dol.</th> </tr> <tr> <td>091</td> <td></td> <td></td> </tr> </table>			Mil.	Thou.	Dol.	091			b. TOTAL depreciation charges against assets during 1977 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">Mil.</th> <th style="width: 10%;">Thou.</th> <th style="width: 10%;">Dol.</th> </tr> <tr> <td>131</td> <td></td> <td></td> </tr> </table>			Mil.	Thou.	Dol.	131																					
Mil.	Thou.	Dol.																																		
091																																				
Mil.	Thou.	Dol.																																		
131																																				
EXAMPLE FOR REPORTING PERCENTS If figure is 38.76% of total sales: • Report whole percents → 39% Not acceptable → 38.76%			Item 14 – SELECTED OPERATING EXPENSES 140 (1) Cost of purchased electricity (2) Cost of fuels consumed (3) Cost of purchased communication services (4) Cost of purchased repair services for buildings and structures (5) Cost of purchased repair services for machinery and equipment																																	
Item 10 – SALES TO CUSTOMERS OUTSIDE THIS COMPANY 100 a. Did this establishment have sales to customers outside this company during 1977? 1 <input type="checkbox"/> YES – Go to b 2 <input type="checkbox"/> NO – SKIP to item 11			(141) (142) (143) (144)																																	
b. (1) Sales and other operating receipts (exclude sales or other taxes collected) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">Mil.</th> <th style="width: 10%;">Thou.</th> <th style="width: 10%;">Dol.</th> </tr> <tr> <td>101</td> <td></td> <td></td> </tr> </table>			Mil.	Thou.	Dol.	101			Item 15 – RENTAL PAYMENTS (EXCLUDE LAND) 150 a. Did this establishment make rental payments during 1977? 1 <input type="checkbox"/> YES – Go to b 2 <input type="checkbox"/> NO – SKIP to item 16																											
Mil.	Thou.	Dol.																																		
101																																				
(2) Were sales (or other) taxes collected from customers and forwarded to taxing authorities? 1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO If "YES," report amount of taxes (DO NOT include in 10b(1)) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">Mil.</th> <th style="width: 10%;">Thou.</th> <th style="width: 10%;">Dol.</th> </tr> <tr> <td>103</td> <td></td> <td></td> </tr> </table>			Mil.	Thou.	Dol.	103			b. Rental payments made for this establishment (1) For use of buildings and structures (2) For use of machinery and equipment (3) TOTAL rental payments (Sum of lines (1) and (2))																											
Mil.	Thou.	Dol.																																		
103																																				
(3) TOTAL sales and other operating receipts (including sales or other taxes collected) (Sum of lines (1) and (2)) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">Mil.</th> <th style="width: 10%;">Thou.</th> <th style="width: 10%;">Dol.</th> </tr> <tr> <td>104</td> <td></td> <td></td> </tr> </table>			Mil.	Thou.	Dol.	104			(151) (152) (153)																											
Mil.	Thou.	Dol.																																		
104																																				
c. Of the value of sales and other operating receipts reported in item 10b(1), report the approximate percentage of these receipts to – (1) General public (households, consumers and individuals) (2) Other, include retailers: wholesalers; institutional, industrial, commercial, professional, and farm users (for use in farm production); and government			Item 16 – COST OF RESEARCH AND DEVELOPMENT 160 a. Did this establishment perform research and development during 1977? 1 <input type="checkbox"/> YES – Go to b 2 <input type="checkbox"/> NO – SKIP to item 17																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 80%;">Principal products sold or services rendered</th> <th style="width: 20%;">Percent of sales and receipts in 1977</th> </tr> <tr> <td>(1)</td> <td></td> </tr> <tr> <td>(2)</td> <td></td> </tr> </table>			Principal products sold or services rendered	Percent of sales and receipts in 1977	(1)		(2)		b. Type of research and development performed (1) Federal contracts and subcontracts (2) With own funds and nonfederal sources (3) TOTAL cost of research and development (Sum of lines (1) and (2))																											
Principal products sold or services rendered	Percent of sales and receipts in 1977																																			
(1)																																				
(2)																																				
Item 11 – CAPITAL EXPENDITURES (EXCLUDE LAND AND MINERAL RIGHTS) 110 a. Did this establishment make capital expenditures during 1977? 1 <input type="checkbox"/> YES – Go to b 2 <input type="checkbox"/> NO – SKIP to item 12			(161) (162) (163)																																	
b. Type of capital expenditures (1) New structures and additions to plant (2) New automobiles, trucks, trailers, etc., for highway use (3) New computers and peripheral data processing equipment (4) All other expenditures for new machinery and equipment (5) Used plant and used equipment acquired from others (6) TOTAL capital expenditures (Sum of lines (1) through (5))			Item 17 – INVENTORIES AND METHOD OF VALUATION 170 a. Did this establishment have inventories during 1977? 1 <input type="checkbox"/> YES – Go to b 2 <input type="checkbox"/> NO – SKIP to item 18																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">Mil.</th> <th style="width: 10%;">Thou.</th> <th style="width: 10%;">Dol.</th> </tr> <tr> <td>111</td> <td></td> <td></td> </tr> <tr> <td>112</td> <td></td> <td></td> </tr> <tr> <td>113</td> <td></td> <td></td> </tr> <tr> <td>114</td> <td></td> <td></td> </tr> <tr> <td>115</td> <td></td> <td></td> </tr> <tr> <td>116</td> <td></td> <td></td> </tr> </table>			Mil.	Thou.	Dol.	111			112			113			114			115			116			b. Value of inventories of this establishment (1) End of 1976 (2) End of 1977 (3) If the dollar value of inventories at the end of 1977 exceeds \$25,000, report the method of valuation below – (1) Cost (a) First-in, First-out (FIFO) (b) Last-in, First-out (LIFO) (c) Average cost (d) Specific or actual cost (e) Standard cost (f) Other – Specify (2) Market (a) Market used because lower than cost (b) Market always used (3) Other – Specify (4) TOTAL (Sum of lines (1) through (3))												
Mil.	Thou.	Dol.																																		
111																																				
112																																				
113																																				
114																																				
115																																				
116																																				
Item 12 – GROSS VALUE OF DEPRECIABLE ASSETS (EXCLUDE LAND) 120 a. Did this establishment maintain depreciable assets during 1977? 1 <input type="checkbox"/> YES – Go to b 2 <input type="checkbox"/> NO – SKIP to item 13			(171) (172) (173) (174) (175) (176) (177) (178)																																	
b. Gross value of depreciable assets, end of 1976 (1) Buildings and structures (2) Machinery and equipment (3) TOTAL (Sum of lines (1) and (2))			(179) (180) (181) (182) (183) (184) (185) (186) (187) (188)																																	
c. Gross value of depreciable assets, end of 1977 (1) Buildings and structures (2) Machinery and equipment (3) TOTAL (Sum of lines (1) and (2))			Item 18 – CONSISTENCY CHECK 190 a. Were any of the above data (items 6–17) also reported in any other 1977 Census establishment report form of this company, i.e., in the Census Forms MA-, MC-, CB-, or CC-series? 1 <input type="checkbox"/> YES – Go to b 2 <input type="checkbox"/> NO – SKIP to item 19																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">Mil.</th> <th style="width: 10%;">Thou.</th> <th style="width: 10%;">Dol.</th> </tr> <tr> <td>121</td> <td></td> <td></td> </tr> <tr> <td>122</td> <td></td> <td></td> </tr> <tr> <td>123</td> <td></td> <td></td> </tr> <tr> <td>124</td> <td></td> <td></td> </tr> <tr> <td>125</td> <td></td> <td></td> </tr> <tr> <td>126</td> <td></td> <td></td> </tr> </table>			Mil.	Thou.	Dol.	121			122			123			124			125			126			b. Please give the 10-digit CENSUS FILE NUMBER of that report 191 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">CFN</td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> </table>			CFN									
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121																																				
122																																				
123																																				
124																																				
125																																				
126																																				
CFN																																				

Remarks This space may be used for any explanation that may be essential in understanding your reported data.

Item 19 – CERTIFICATION

Name of person to contact regarding this report		Telephone Area code Number Extension		This report is substantially accurate and has been prepared in accordance with instructions.					
Address – Number and street		City		State		ZIP code		Period covered → From: Mo. Day Year To: Mo. Day Year	
Signature of authorized person								Title	
Date								Date	

PENALTY FOR FAILURE TO REPORT

DUE DATE: FEBRUARY 15, 1978

Form Approved: O.M.B. No. 41-S77009

FORM NC-K1
(10-23-77)U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS1977 ECONOMIC CENSUSES
ENTERPRISE REPORT

NOTICE — Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

In correspondence pertaining to this report please refer to this Census File Number:

NC-K1 (9991)

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

Please complete this form and RETURN TO

BUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, Indiana 47132

If filing by due date causes a burden, a request for an extension of time should be sent to the above address.

CENSUS
USE
ONLY

Unit No.	Item code	Unit No.	Item code	Unit No.	Item code

Important — Please read instructions before completing report

Report the following items on a consolidated basis for the domestic activities of your enterprise. An enterprise is a business organization (i.e., company, service organization, membership organization, association, etc.) consisting of one or more establishments under common ownership or control. Furthermore, if an enterprise owns or controls other entities, all establishments of its subsidiaries are to be included as part of the owning or controlling enterprise. For purposes of this report, "domestic" activities include all 50 States and the

District of Columbia. Do not include foreign activities, if any, except for reporting foreign assets in item 9. Consolidate all domestic activities, whether or not covered in the 1977 Economic Censuses by individual report forms.

If book records are not available, enter your best estimate. **Before completing these items, please read the detailed instructions.**

Item 1 — CERTIFICATION

Name of person to contact regarding this report		Telephone		This report is substantially accurate and has been prepared in accordance with instructions.									
		Area code	Number	Extension									
Address — Number and street					Period covered	From: 010	Mo. 011	Day 012	Year 013	To: 013	Mo. 014	Day 015	Year 015
					Signature of authorized person								
City		State		ZIP code	Title				Date				

Important—Please read

Dollar figures should be reported as illustrated. Please be careful to enter your figures in the correct columns. See example below:

EXAMPLE: If figure is \$1,125,628.28 →

■ PREFERRED method

Acceptable method

Mil.	Thou.	Dol.
000	000	000
1	125	
1	125	628

Item 2 — TOTAL EMPLOYMENT

Number of paid employees for the pay period including March 12, 1977

Number of employees
020**Item 3 — TOTAL PAYROLL**

a. Payroll for the FIRST QUARTER of 1977, before deductions

b. TOTAL ANNUAL payroll in 1977, before deductions

Mil.	Thou.	Dol.
000	000	000

030

031

040

Item 4 — EMPLOYER COSTS FOR FRINGE BENEFITS

a. Required by law

b. Other fringe benefits

c. Total fringe benefits (Sum of lines a and b)

041

042

050

Item 5 — SALES AND RECEIPTS

a. Sales and other operating receipts (exclude sales or other taxes collected)

b. Were sales (or other) taxes collected from customers and forwarded to taxing authorities?

051
1 ☐ YES
2 ☐ NO

052

If "Yes," report amount of taxes. Do not include in 5a.

053

c. TOTAL sales and other operating receipts (including sales or other taxes collected) (Sum of lines a and b)

PLEASE CONTINUE ON REVERSE SIDE

REMARKS - Please use this space for any explanation that may be essential in understanding your reported data.

PENALTY FOR FAILURE TO REPORT

DUE DATE: FEBRUARY 15, 1978

Form Approved: O.M.B. No. 41-577035

FORM MC-36B (Rev.)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

NOTICE — Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

1977 CENSUS OF MANUFACTURES

SWITCHGEAR AND SWITCHBOARD APPARATUS
AND INDUSTRIAL CONTROLSPlease complete this
form and RETURN TOBUREAU OF THE CENSUS
1201 East Tenth Street
Jeffersonville, Indiana 47132

Please read ...

A separate census report must be filed for each manufacturing establishment which your company operated in 1977. A manufacturing establishment is defined as a single physical location where products are manufactured, processed, or assembled.

Please read the instructions for each item before completing it. If book figures are not available, carefully prepared estimates are acceptable.

If filing by due date causes an undue burden, a time extension request should be sent to the above address. Please enter your 11-digit Census File Number on each page of this report and on any correspondence with us regarding this report.

In correspondence pertaining to this report,
please refer to this Census File Number

Employer Identification
Number

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

110 1 2 3 4 5 6 7 8 111 1 2 3 4 5 6 7 8

ITEM 1A	In order to assign this establishment to the correct geographic area, the Bureau of the Census must know the actual location which may differ from the mailing address. Complete items a through g.		
Physical location of establishment	a. Address number and street name of physical location — If not known, enter building name, shopping center name, or other physical location description. Do not enter P.O. box or rural route. Mark (X) for a, b, c, and d if same as mailing label; if different enter corrections. Same as mailing label <input type="checkbox"/> OR <input type="checkbox"/>	e. Type of municipality indicated in 1Ab 1 <input type="checkbox"/> City 4 <input type="checkbox"/> Borough 7 <input type="checkbox"/> Other — Specify 2 <input type="checkbox"/> Town 5 <input type="checkbox"/> Township 3 <input type="checkbox"/> Village 6 <input type="checkbox"/> Unincorporated 8 <input type="checkbox"/> Don't know	
	b. Name of city, town, village, borough, etc. of physical location Same as mailing label <input type="checkbox"/> OR <input type="checkbox"/>	f. Is this establishment located inside the legal boundaries of the city, town, village, etc., indicated in 1Ab? 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No NOTE — The area served by a post office generally does not coincide with the legal boundaries of the municipality from which it takes its name. 3 <input type="checkbox"/> No legal boundaries 4 <input type="checkbox"/> Don't know	
	c. State Same as mailing label <input type="checkbox"/> OR <input type="checkbox"/>	g. Name of county (Louisiana parish) of physical location	
	d. ZIP code Same as mailing label <input type="checkbox"/> OR <input type="checkbox"/>		

ITEM 1B	Is the Employer Identification (EI) Number printed in the upper right of the address box the SAME as that used for this establishment on its latest 1977 Employer's Quarterly Federal Tax Return, Treasury Form 941? (9-digits) <input type="checkbox"/> YES <input type="checkbox"/> NO — Enter current EI number	ITEM 1C	Mark (X) the ONE box which best describes this establishment during 1977 Organizational status 1 <input type="checkbox"/> Individual proprietorship 8 <input type="checkbox"/> Cooperative association, corporate or non-corporate 2 <input type="checkbox"/> Partnership 9 <input type="checkbox"/> Other — Specify 3 <input type="checkbox"/> Corporation (Do not mark if any form of cooperative association)
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Important—Please read

Dollars, hours worked, and kilowatt-hour figures should be reported in thousands. If you wish, you may report to the nearest unit. Please be careful to enter your figures in the correct columns.

EXAMPLE: If figure is \$1,125,628.28

	Millions	Thousands	Dollars
	000	000	000
	1	125	
	1	125	628

• PREFERRED method
Acceptable method

REFER TO SPECIAL INSTRUCTIONS ON REVERSE SIDE FOR ITEMS 2-8			
Complete each item and enter "0" when appropriate. Key Number			
ITEM 2 Number of employees	a. March	301	
	b. May	302	
	c. August	303	
	d. November	304	
	e. Sum of lines a-d	305	
	f. Average number (divide line e by 4, omit fractions)	306	
	g. All other employees (pay period including March 12th)	307	
	h. TOTAL EMPLOYMENT (Sum of lines f and g, item 2)	308	
ITEM 3A Annual payrolls	a. Production workers' wages (for employees reported in item 2f)	309 \$	
	b. All other salaries and wages (for employees reported in item 2g)	310	
	c. TOTAL PAYROLL (item 3A)	311 \$	
ITEM 3B — Not applicable to this form			
ITEM 3C First quarter payroll	TOTAL PAYROLL FOR THE FIRST QUARTER (JANUARY-MARCH)	315 \$	
ITEM 4 Plant hours worked by production workers by quarter	a. January through March	316	
	b. April through June	317	
	c. July through September	318	
	d. October through December	319	
	e. TOTAL HOURS WORKED (Item 4)	320	
ITEM 5 Cost of materials, resales, fuels, electricity, and contract work	a. Cost of materials, parts, supplies, containers, etc., which were put into production, used as operating supplies, or used in repair and maintenance	321 \$	
	b. Cost of products bought and sold without further manufacture or assembly (Resales)	322	
	c. Cost of fuels consumed during the year for heat and power	323	
	d. Cost of purchased electricity	324	
	e. Cost of contract work done for you by others on your materials	325	
	f. TOTAL COST (item 5)	326 \$	
ITEM 6 — Not applicable to this form			
ITEM 7 Inventories of this establishment	END OF 1976		END OF 1977
	a. Finished products	331 \$	335 \$
	b. Work-in-process	332	336
	c. Materials, supplies, fuels, etc.	333	337
	d. TOTAL INVENTORIES (item 7)	334 \$	338 \$
ITEM 8 Capital expenditures during year	Key Mil. Thou. Dol.		Key Mil. Thou. Dol.
	a. New structures and new additions to this plant (Exclude land)	342 \$	
	b. New machinery and equipment including replacements and capitalized repairs	343	
	c. Used buildings and equipment	347	
	d. TOTAL CAPITAL EXPENDITURES (item 8)	350 \$	
ITEMS 9-15 — Not applicable to this form			
CENSUS USE			

CONTINUE ON PAGE 2 →

Form MC-36B (Rev.)

Page 2

ITEM 16A		a. Mark (X) ONE box — Be sure to indicate the date of any change		Enter figures only																						
				Mo.	Day	Year																				
Operational status	1112	1 <input type="checkbox"/> No change in operator or operations																								
		2 <input type="checkbox"/> Reorganized — Complete report for full year and describe type of change in remarks																								
		3 <input type="checkbox"/> Started new business (newly constructed or completely equipped when started)																								
		4 <input type="checkbox"/> Establishment closed (no new owner or operator), dismantled, abandoned, or destroyed																								
		5 <input type="checkbox"/> Establishment idle or inactive but still owned																								
		6 <input type="checkbox"/> Establishment was acquired or leased from another company																								
	Mark (X) ONE box and give name and address if —		Name of former operator		Enter current EI number (9 digits)																					
	<input type="checkbox"/> Building only acquired																									
	<input type="checkbox"/> Complete plant acquired (building, machinery, and equipment)		Number and street, city, State, ZIP code																							
	7 <input type="checkbox"/> Establishment was sold or leased to another company		Name of new operator		Enter current EI number (9 digits)																					
Mark (X) ONE box and give name and address if —																										
<input type="checkbox"/> Building only sold																										
<input type="checkbox"/> Complete plant sold (building, machinery, and equipment)		Number and street, city, State, ZIP code																								
b. Is the FIRST DIGIT of your Census File Number (imprinted in the address box) a Zero "0"?				<input type="checkbox"/> YES — Complete Item 16B, a through d <input type="checkbox"/> NO — SKIP to Item 16C																						
ITEM 16B		Enter the company name and address (Number and street, city, State, ZIP code) and EI number. If more space is needed to list companies, use remarks section.																								
Ownership and control	113	a. Is this company owned or controlled by another company?		603 Name and address of owning or controlling company		Enter current EI number (9 digits)																				
		1 <input type="checkbox"/> YES → 2 <input type="checkbox"/> NO																								
	114	b. Does this company own or control any other company or companies?		604 Name and address of owned or controlled company		Enter current EI number (9 digits)																				
		1 <input type="checkbox"/> YES → 2 <input type="checkbox"/> NO																								
	c. Did this company have any manufacturing plants under construction but not in operation at the end of the year? 1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO																									
	d. Did this company operate at more than one location during the survey year? If more space is needed, attach separate sheet. 1 <input type="checkbox"/> YES — List additional locations below 2 <input type="checkbox"/> NO — SKIP to Item 16C																									
	Physical address of business location (Number and street, city, State, ZIP code)		Employer Identification Number	Kind of business at this location	Sales and receipts	Annual payroll	Number of employees																			
	(1)	(2)	(3)	(4)	(5)	(6)	Are these figures included on the front of this report? (7)																			
	605	606 (9 digits)	607	608 Mil. 609 Thou. 610 Dol.	608 Mil. 609 Thou. 610 Dol.	610	<input type="checkbox"/> YES <input type="checkbox"/> NO																			
	605	606 (9 digits)	607	608 Mil. 609 Thou. 610 Dol.	608 Mil. 609 Thou. 610 Dol.	610	<input type="checkbox"/> YES <input type="checkbox"/> NO																			
<div style="display: flex; justify-content: space-between;"> <div> <p>ITEM 16C</p> <p>CHECKS to assure a complete and accurate report</p> <p>The Bureau of the Census reviews this report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning this report.</p> </div> <div> <p>• Review the report carefully to see that no items are omitted for the year being covered.</p> <p>• Calculate and enter figures for the four "reasonableness" checks below, and review the results.</p> <p>• Correct your report for any errors you find and explain unusual figures in remarks.</p> <p><i>For most manufacturing establishments, the figures computed usually fall within the ranges indicated.</i></p> </div> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>"Reasonableness" checks</th> <th>Calculation required for each check</th> <th>Figures for survey year</th> <th>Usual range</th> </tr> </thead> <tbody> <tr> <td>a. Average hourly wages per production worker</td> <td>Item 3Aa (Production workers' wages) ÷ Item 4e (Total hours worked)</td> <td>\$/hr.</td> <td>\$2 — \$10</td> </tr> <tr> <td>b. Hours worked per year per production worker</td> <td>Item 4e (Total hours worked) ÷ Item 2f (Average number of production workers)</td> <td>hrs./yr.</td> <td>1000 — 3000</td> </tr> <tr> <td>c. Salaries and wages per dollar of shipments</td> <td>Item 3Ac (Total payroll) ÷ Item 18 (Total value of shipments)</td> <td>¢</td> <td>05¢ — 95¢</td> </tr> <tr> <td>d. Materials cost per dollar of shipments</td> <td>Item 5f (Total materials cost) ÷ Item 18 (Total value of shipments)</td> <td>¢</td> <td>05¢ — 95¢</td> </tr> </tbody> </table> <p>e. Is the total for Value of Shipments (item 18) greater than the sum for payroll (item 3Ac) plus total Cost of Materials, etc. (item 5f)? <input type="checkbox"/> YES <input type="checkbox"/> NO — Explain in remarks</p>							"Reasonableness" checks	Calculation required for each check	Figures for survey year	Usual range	a. Average hourly wages per production worker	Item 3Aa (Production workers' wages) ÷ Item 4e (Total hours worked)	\$/hr.	\$2 — \$10	b. Hours worked per year per production worker	Item 4e (Total hours worked) ÷ Item 2f (Average number of production workers)	hrs./yr.	1000 — 3000	c. Salaries and wages per dollar of shipments	Item 3Ac (Total payroll) ÷ Item 18 (Total value of shipments)	¢	05¢ — 95¢	d. Materials cost per dollar of shipments	Item 5f (Total materials cost) ÷ Item 18 (Total value of shipments)	¢	05¢ — 95¢
"Reasonableness" checks	Calculation required for each check	Figures for survey year	Usual range																							
a. Average hourly wages per production worker	Item 3Aa (Production workers' wages) ÷ Item 4e (Total hours worked)	\$/hr.	\$2 — \$10																							
b. Hours worked per year per production worker	Item 4e (Total hours worked) ÷ Item 2f (Average number of production workers)	hrs./yr.	1000 — 3000																							
c. Salaries and wages per dollar of shipments	Item 3Ac (Total payroll) ÷ Item 18 (Total value of shipments)	¢	05¢ — 95¢																							
d. Materials cost per dollar of shipments	Item 5f (Total materials cost) ÷ Item 18 (Total value of shipments)	¢	05¢ — 95¢																							
Remarks — Please use this space for any explanations that may be essential in understanding your reported data.																										
<p>SPECIAL INSTRUCTIONS FOR ITEMS 2-8</p> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <p>► Item 2 — Number of employees — Report all employees at this establishment who received pay for part of the pay period including the 12th of the specified months. Include officers at this establishment, if a corporation; if an unincorporated concern exclude proprietor or partners.</p> <p>► Items 2a-2d — Number of production workers — Report workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspecting, and other manufacturing.</p> <p>► Item 2e — All other employees — Report nonproduction personnel, including those engaged in supervision (above the working foreman level), installation and servicing of own product, sales, delivery, professional, technical, administrative, etc.</p> <p>► Item 3a — Annual payrolls — Report gross earnings prior to deductions paid in the calendar year to those employees reported in item 2. Include commissions, dismissal pay, bonuses, and vacation pay.</p> <p>► Item 4 — Plant hours worked by production workers by quarter — Include all production hours worked, including overtime hours, but excluding paid vacations, etc. These should be reported as actual hours worked, not straight-time equivalent hours.</p> <p>► Item 5 — Cost of materials, etc. — Report total delivered cost after discounts and including freight of the materials actually consumed or put in production during the year. Include purchases, interplant transfers, and withdrawal from inventories.</p> <p>If there are no records of consumption, purchases may be reported instead for minor items. This can also be done for major items if purchases do not differ significantly from the amounts actually used. Where consumption of major items differs significantly from purchases, consumption may be estimated by adding beginning inventories to the amount purchased and subtracting ending inventories.</p> </div> <div style="width: 50%;"> <p>► Item 5a — Cost of materials, parts, supplies, containers, etc., consumed — The delivered cost figures should cover all raw materials, containers, scrap, supplies, etc., which were: (1) put into production, (2) used as operating supplies, (3) used in repair and maintenance. Item 5a should be consistent with the data in item 17B.</p> <p>► Item 5b — Cost of products bought and sold — Report the cost of all products bought and sold in the same condition as when purchased, and not made part of another product manufactured by this establishment. (Total sales value of all products sold is to be reported in item 18 on the line for resales.)</p> <p>► Item 5c — Cost of fuels consumed — Report the total cost of all fuels consumed for heat, power, transportation, or the generation of electricity. Do not include the estimated cost of fuels, such as sawdust or blast furnace gas, produced as a by-product of your manufacturing activities. Include anthracite and bituminous coal, coke, natural and manufactured gas, fuel oil, liquefied petroleum gas, gasoline, and all other fuels including purchased steam.</p> <p>► Item 5d — Cost of purchased electricity — Report the total cost of electric energy purchased from other companies or received from other establishments of your company. Exclude the value of electricity generated and used at this establishment.</p> <p>► Item 5e — Cost of contract work done for you by others on your materials — If any contract work was done by others on materials furnished by your establishment, report the total payments made during the year for such work, including freight out and in. Exclude the cost of materials worked on, which should be included in item 5a.</p> <p>► Item 6 — Capital expenditures during year (Exclude expenditures for land) — Include all costs actually incurred during 1977 chargeable to the fixed assets accounts and of the type for which depreciation or amortization accounts are ordinarily maintained. This should include construction and repair work performed by your own forces.</p> </div> </div>																										

CONTINUE ON PAGE 3 →

FORM MC-36B (Rev.) U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS		PLEASE ENTER THIS ESTABLISHMENT'S 11-DIGIT CENSUS FILE NUMBER	
1977 CENSUS OF MANUFACTURES SWITCHGEAR AND SWITCHBOARD APPARATUS AND INDUSTRIAL CONTROLS - Continued		Name of establishment (Same as address box)	
Item 17A WATER USE DURING 1977			
1. What was the total quantity of water intake for this establishment for use in the production process and auxiliary operations (such as cooling and condensing, sanitary services, and boiler feed) during the calendar year 1977?			
Mark (X) one box only 1 <input type="checkbox"/> Under 1 million gallons 2 <input type="checkbox"/> 1-9 million gallons		3 <input type="checkbox"/> 10-19 million gallons 4 <input type="checkbox"/> 20-49 million gallons 5 <input type="checkbox"/> 50-99 million gallons 6 <input type="checkbox"/> 100 million gallons or over	
2. Did you recirculate any water during the calendar year 1977?			
1 <input type="checkbox"/> YES		2 <input type="checkbox"/> NO	
Item 17B CONSUMPTION OF SELECTED MATERIALS DURING 1977			
<i>Instructions - Please read</i>			
1. GENERAL - The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in item 18. Please review the entire list and report separately for each item consumed. The materials, parts, and supplies consumed at this establishment which are not prelisted should be described and reported in the "All other materials, etc." line at the end of this section. If your consumption of a listed material is valued at less than \$10,000, enter an (X) in column (E) and include the value with "All other materials, etc." Census material code 970099 8. If your book records do not contain information as requested, reasonable estimates are acceptable.			
2. VALUATION OF MATERIALS CONSUMED - The value of the materials, etc., consumed should be based on the delivered cost, i.e., the amount paid or payable after discounts and including freight and other direct charges incurred in acquiring the materials. This includes purchases, transfers from other establishments of your company, and withdrawals from inventories.			
Materials transferred to you from other plants within your company should be assigned their full economic value, as assigned by the shipping plant, plus cost of freight and handling charges.			
3. CONTRACT WORK - Materials purchased for use by others making products for you on a contract basis should be included. Amounts paid to other companies for such contract work should be reported in item 5e, and should include freight in and out. Materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.			
4. MATERIALS PRODUCED AND CONSUMED - Materials, parts, and supplies which are produced and consumed in the same establishment in the manufacture of products should be reported in column (C-1). Please report only the quantities of these materials produced and consumed. If the specific input materials used to produce these items are listed, the quantity and value should be reported in columns (C-2) and (D). If not, the cost should be included in the "All other materials, etc." line, Census material code 970099 8.			
Line number	Materials, parts, and supplies	Census material code	Unit of measure for quantities
5	(A)	(B-1)	(B-2)
571	(B-1)	572	(C-1)
573	(C-2)	574	(D)
575	(E)	576	(F)
577	(G)	578	(H)
579	(I)	580	(J)
581	(K)	582	(L)
583	(M)	584	(N)
585	(O)	586	(P)
587	(Q)	588	(R)
589	(S)	590	(T)
591	(U)	592	(V)
593	(W)	594	(X)
595	(Y)	596	(Z)
597	(AA)	598	(AB)
599	(AC)	600	(AD)
601	(AE)	602	(AF)
603	(AG)	604	(AH)
605	(AI)	606	(AJ)
607	(AK)	608	(AL)
609	(AM)	610	(AN)
611	(AO)	612	(AP)
613	(AQ)	614	(AR)
615	(AS)	616	(AT)
617	(AU)	618	(AV)
619	(AW)	620	(AX)
621	(AY)	622	(AZ)
623	(BA)	624	(BB)
625	(BC)	626	(BD)
627	(BE)	628	(BF)
629	(BG)	630	(BH)
631	(BI)	632	(BJ)
633	(BK)	634	(BL)
635	(BM)	636	(BN)
637	(BO)	638	(BP)
639	(BQ)	640	(BR)
641	(BS)	642	(BT)
643	(BU)	644	(BV)
645	(BW)	646	(BX)
647	(BY)	648	(BZ)
649	(CA)	650	(CB)
651	(CC)	652	(CD)
653	(CE)	654	(CF)
655	(CG)	656	(CH)
657	(CI)	658	(CJ)
659	(CK)	660	(CL)
661	(CM)	662	(CN)
663	(CO)	664	(CP)
665	(CQ)	666	(CR)
667	(CS)	668	(CT)
669	(CU)	670	(CV)
671	(CW)	672	(CX)
673	(CY)	674	(CZ)
675	(DA)	676	(DB)
677	(DC)	678	(DD)
679	(DE)	680	(DF)
681	(DG)	682	(DH)
683	(DI)	684	(DJ)
685	(DK)	686	(DL)
687	(DM)	688	(DN)
689	(DO)	690	(DP)
691	(DQ)	692	(DR)
693	(DS)	694	(DT)
695	(DU)	696	(DV)
697	(DW)	698	(DX)
699	(DY)	700	(DZ)
701	(EA)	702	(EB)
703	(EC)	704	(ED)
705	(EE)	706	(EF)
707	(EG)	708	(EH)
709	(EI)	710	(EJ)
711	(EK)	712	(EL)
713	(EM)	714	(EN)
715	(EO)	716	(EP)
717	(EQ)	718	(ER)
719	(ES)	720	(ET)
721	(EU)	722	(EV)
723	(EW)	724	(EX)
725	(EY)	726	(EZ)
727	(FA)	728	(FB)
729	(FC)	730	(FD)
731	(FE)	732	(FF)
733	(FG)	734	(FH)
735	(FI)	736	(FJ)
737	(FK)	738	(FL)
739	(FM)	740	(FN)
741	(FO)	742	(FP)
743	(FQ)	744	(FR)
745	(FS)	746	(FT)
747	(FU)	748	(FV)
749	(FW)	750	(FX)
751	(FY)	752	(FZ)
753	(GA)	754	(GB)
755	(GC)	756	(GD)
757	(GE)	758	(GF)
759	(GG)	760	(GH)
761	(GI)	762	(GJ)
763	(GK)	764	(GL)
765	(GM)	766	(GN)
767	(GO)	768	(GP)
769	(GQ)	770	(GR)
771	(GS)	772	(GT)
773	(GU)	774	(GV)
775	(GW)	776	(GX)
777	(GY)	778	(GZ)
779	(HA)	780	(HB)
781	(HC)	782	(HD)
783	(HE)	784	(HF)
785	(HG)	786	(HH)
787	(HI)	788	(HJ)
789	(HK)	790	(HL)
791	(HM)	792	(HN)
793	(HO)	794	(HP)
795	(HQ)	796	(HR)
797	(HS)	798	(HT)
799	(HU)	800	(HV)
801	(HW)	802	(HX)
803	(HY)	804	(HZ)
805	(IA)	806	(IB)
807	(IC)	808	(ID)
809	(IE)	810	(IF)
811	(IG)	812	(IH)
813	(II)	814	(IJ)
815	(IK)	816	(IL)
817	(IM)	818	(IN)
819	(IO)	820	(IP)
821	(IQ)	822	(IR)
823	(IS)	824	(IT)
825	(IU)	826	(IV)
827	(IW)	828	(IX)
829	(IY)	830	(IZ)
831	(JA)	832	(JB)
833	(JC)	834	(JD)
835	(JE)	836	(JF)
837	(JG)	838	(JH)
839	(JI)	840	(JJ)
841	(JK)	842	(JL)
843	(JM)	844	(JN)
845	(JO)	846	(JP)
847	(JQ)	848	(JR)
849	(JS)	850	(JT)
851	(JU)	852	(JV)
853	(JW)	854	(JX)
855	(JY)	856	(JZ)
857	(KA)	858	(KB)
859	(KC)	860	(KD)
861	(KE)	862	(KF)
863	(KG)	864	(KH)
865	(KI)	866	(KJ)
867	(KK)	868	(KL)
869	(KM)	870	(KN)
871	(KO)	872	(KP)
873	(KQ)	874	(KR)
875	(KS)	876	(KT)
877	(KU)	878	(KV)
879	(KW)	880	(KX)
881	(KY)	882	(KZ)
883	(LA)	884	(LB)
885	(LC)	886	(LD)
887	(LE)	888	(LF)
889	(LG)	890	(LH)
891	(LI)	892	(LJ)
893	(LK)	894	(LL)
895	(LM)	896	(LN)
897	(LO)	898	(LP)
899	(LQ)	900	(LR)
901	(LS)	902	(LT)
903	(LU)	904	(LV)

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Item 18 PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1977*Instructions - Please read*

1. GENERAL - The products and services listed below are those that are generally made in your industry. Please review the entire list before completing the inquiry. If you produce products that are not prelisted, they should be described and reported in the "All other products" section at the end of item 18. Please do not combine product lines.

Products for which quantity data are requested should be reported in the unit of measure specified.

If your book records do not contain information as requested, reasonable estimates are acceptable.

2. VALUATION OF PRODUCTS - The value of the products shipped and services performed should be based on the net selling value, f.o.b. plant, after discounts and allowances, and exclusive of freight charges and excise taxes.

When transferring products to other establishments within your company, the shipping plant should assign the full economic value to the transferred products, i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.

3. PRODUCTS BOUGHT AND SOLD WITHOUT FURTHER MANUFACTURE - Products which you purchase and sell as originally purchased (not used in the further manufacturing, processing, or assembling of products made in this establishment) should be reported as "Resales," Census product code 99989 00 6.

4. CONTRACT WORK

a. Products made by others for you from your materials: Report such products on the specific lines of this section as if they were made in this establishment.

b. Products that you made from materials owned by others: Report the amount that you received for "commission or contract receipts" on line 29, Census product code 93000 00 8. Do not report on the specific product lines for these products.

5. DETAILED DATA REPORTED ELSEWHERE - This report requires totals for groups of products covered in more detailed Current Industrial Reports (CIR). If you report on the CIR forms the value of shipments for items designated by an asterisk should equal the sum of the detail reported on the CIR's.

Line number	Products and services * Item corresponds to products reported on Current Industrial Reports (A)	Census product code 581 (B-1)	Unit of measure for quantities (B-2)	Corresponds to the sum of products for 1977 reported on -		Products shipped and other receipts			
				Census form (B-3)	Code (B-4)	Quantity 583 (D)	Value, f.o.b. plant (E)		
							584 Millions	Thou- sands	Dollars
1	Switchgear, except ducts and relays (36131)*	36131 00 1			3613109-3613193		\$		
2	Power circuit breakers, all voltages (36132)*	36132 00 9			3613215-3613230				
3	Low voltage panelboards and distribution boards and other switching and interrupting devices, 750 volts and under (36133)*	36133 00 7			3613311-3613398				
4	Fuses and fuse equipment under 2300 volts, except power distribution cut-outs (36134)*	36134 00 5		MA-36A	3613431-3613493				
5	Molded case circuit breakers, 750 volts and under (36135)*	36135 00 2			3613511-3613595				
6	Duct, including plug-in units and accessories, under 750 volts and under (36136)*	36136 00 0			3613611-3613631				
7	Relays, control circuit (36137)*	36137 00 8			3613701-3613704				
8	General industry power circuit devices, controls, and parts (36220)*	36220 00 2			3622012-3622099				
9	Integrating instruments, electrical (38251)*	38251 00 5		MA38B	3825110-3825161				
10	Instruments to measure electricity (38253)*	38253 00 1		MA38B	3825308-3825376				
11	Power mercury arc rectifiers	36292 51 4	No. of units						
12	Current-carrying wiring devices, including lightning rods (36430)*	36430 00 7		MA36K	3643001-3643099				
13	Electrical metallic conduit and conduit fittings (36442)*	36442 00 2		MA36K	3644221-3644273				
14	Resistors for electronic applications (36700)*	36700 00 3	Thousands of units	MA36N	3676011-3676064				
15	Controls for monitoring residential and commercial environments and appliance regulating controls (38220)*	38220 00 0		MA38B	3822020-3822080				
16	Fractional horsepower motors (exclude hermetics) (36211)*	36211 00 1		MA36H	3621101-3621185				
17	Fractional motor-generator sets and other rotating equipment, including hermetics (36212)*	36212 00 8		MA36H	3621221-3621298				
18	Land transportation motors, generators, control equipment and parts (36213)*	36213 00 7		MA36H	3621311-3621398				
19	Parts and supplies for motors, generators, and motor generator sets, except for land transportation equipment. (Exclude motors for built in jobs)	36219 11 1							
20	Parts and attachments for adding, calculating, accounting machines and cash registers produced by complete machine manufacturers *	35745 10 8		MA35R	3574510				
21	Copper and copper-base alloy wire (bare and tinned) for purposes other than electrical transmission (alloyed)	33511 31 2	Short tons						
22	Galvanizing and other hot dip coatings	34790 31 1							
23	ALL OTHER PRODUCTS MADE IN THIS ESTABLISHMENT Describe and report separately for each product whose value was \$50,000 or more and not listed above. Specify unit of measure for quantity.								
24									
25									
26									
27									
28	Report a single total value for your remaining products not listed above.	77777 00 1							
29	CONTRACT WORK Receipts for work done for others on their own materials Describe products worked on and kind of work	93000 00 8							
30	MISCELLANEOUS RECEIPTS Sales of scrap and refuse	99980 13 8							
31	Receipts for repair work	99980 61 7							
32	Other miscellaneous receipts	99980 98 9							
33	RESALES Sales of products bought and sold without further manufacture, processing, or assembly in this establishment. The cost of such items should be reported in item 5b.	99989 00 6							
34	TOTAL Sum of lines 1-33 column (E)	77000 00 8					\$		

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FORM MC-36B (Rev.) U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS 1977 CENSUS OF MANUFACTURES SWITCHGEAR AND SWITCHBOARD APPARATUS AND INDUSTRIAL CONTROLS - Continued	PLEASE ENTER THIS ESTABLISHMENT'S 11-DIGIT CENSUS FILE NUMBER Name of establishment (same as address box)
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Item 19 - Not applicable to this form

Item 20 SELECTED METALWORKING AND RELATED OPERATIONS PERFORMED IN THIS ESTABLISHMENT DURING 1977

Mark (X) appropriate box

Were any of the operations listed below performed in this establishment in 1977?

If "Yes," indicate in column (C) by marking appropriately, which of the specified operations were performed in this establishment during 1977. Where "Yes" is marked, show in column (D) the approximate number of production workers on all shifts usually engaged in the specified operation.

Line number	Operation (A)	5 Census code (B)	Was this operation performed in this establishment during 1977? (C)		Number of production workers (on all shifts) usually employed when operated (estimate if necessary) (D)
			591 Yes	592 No	
1	Foundry (iron or steel)	018	1 <input type="checkbox"/>	<input type="checkbox"/>	
2	Foundry (nonferrous, except die casting)	026	1 <input type="checkbox"/>	<input type="checkbox"/>	
3	Electroplating and other plating	059	1 <input type="checkbox"/>	<input type="checkbox"/>	
4	Heat treating of metals for production purposes	075	1 <input type="checkbox"/>	<input type="checkbox"/>	
5	Automatic screw machine department	083	1 <input type="checkbox"/>	<input type="checkbox"/>	
6	Machine shop	091	1 <input type="checkbox"/>	<input type="checkbox"/>	
7	Tool and die shop (if separate from machine shop) for jigs, fixtures, dies, and other special tooling	109	1 <input type="checkbox"/>	<input type="checkbox"/>	
8	Pattern shop (foundry patterns only - metal, wood, etc.)	117	1 <input type="checkbox"/>	<input type="checkbox"/>	
9	Plate or structural fabrication	125	1 <input type="checkbox"/>	<input type="checkbox"/>	
10	Stamping, blanking and forming of metals	133	1 <input type="checkbox"/>	<input type="checkbox"/>	
11	Painting, lacquering and enameling on metals	141	1 <input type="checkbox"/>	<input type="checkbox"/>	
12	Plastics molding	158	1 <input type="checkbox"/>	<input type="checkbox"/>	

Item 21 - Not applicable to this form

Remarks - Please use this space for any explanation that may be essential in understanding your reported data.

Item 22 CERTIFICATION				This report is substantially accurate and has been prepared in accordance with instructions.								
Name of person to contact regarding this report		Telephone		Period covered →	From:	Mo.	Day	Year	To:	Mo.	Day	Year
		Area code	Number		Extension							
Address - Number and street				Signature of authorized person								
City		State		ZIP code		Title		Date				

PENALTY FOR FAILURE TO REPORT

DUE DATE: FEBRUARY 15, 1978

FORM MC-37EX
(RAILROAD SHOPS)U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 CENSUS OF MANUFACTURES

LOCOMOTIVES AND CARS
BUILT AND REBUILT IN SHOPS OF
OPERATING RAILROADSPlease complete and return
this form as soon as possible
after receipt toBUREAU OF THE CENSUS
Industry Division
Washington, D.C. 20233**NOTICE** — Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.In correspondence pertaining to this report,
please refer to this Census File NumberEmployer Identification
Number

Please correct errors in name, address and ZIP code. ENTER street and number if not shown.

Instructions - Please read

Please return one copy of this report to the Bureau of the Census, Industry Division, Washington, D.C., 20233, WITHIN 30 DAYS. A separate report should be completed for each shop of your company at which any locomotives or railroad cars were built or rebuilt during 1977.

Include as "rebuilt" locomotives and railroad cars those for which the cost of their dismantling, improvement, and modernization is more

than 50 percent of the replacement cost of a new unit of the same class and kind at the time of rebuilding. Do not include as "rebuilt" any conversions or reclassifications, nor units which were reconditioned by replacing defective parts. The values reported for "rebuilt" locomotives and cars should represent the additional value written into the property account.

Item A —
NAME OF
ESTABLISHMENT
COVERED BY
THIS REPORTItem B —
LOCATION OF
ESTABLISHMENT

Number and street

City

State

ZIP code

Item C —
NATURE OF
ACTIVITY

Describe briefly the kind of activity of this establishment

Item D —
MAN-HOURS OF
PRODUCTION
WORKERS

Were more than 50 percent of the total production worker man-hours worked at this shop during 1977 devoted to building or rebuilding locomotives, passenger cars, or freight cars?

☐ Yes☐ No

PLEASE CONTINUE ON PAGE 2

Form MC-37EX

Page 2

Item E PRODUCTS MADE IN RAILROAD SHOP DURING 1977*Instructions - Please read*

Columns (D) and (E) - Total built and rebuilt - Locomotives and cars built and rebuilt by railroads in their shops for their own use should be reported when they are transferred from the shop to the operating part of the company. The value of new locomotives and cars built by railroads for their own use should represent the amount at which they were written into the property accounts. The value reported for locomotives and cars "rebuilt" by railroad companies should represent the additional value written into the property account.

Report separately each product listed; do not combine product lines.

Lines 1-4, 21, and 22 - Include under "rebuilt," locomotives and railroad cars for which the cost of their dismantling, improvement, and modernization is more than 50 percent of the replacement cost of a new unit of the same class and kind at the time of rebuilding. Do not include as rebuilt any units which were reconditioned by replacing defective parts. Do not include conversions or reclassifications.

Column (F) - Weight of items reported in column (D) - Report the weight of locomotives and cars as the empty light weight or "tare" weight.

Line number	Product		Census product code	Total built and rebuilt		Weight of items reported in column (D) (SHORT TONS)	
				Quantity (NUMBER OF UNITS)	Value f.o.b. plant (THOUSANDS OF DOLLARS)		
							(D)	(E)
	(A)		(B)	(D)	(E)	(F)	
1	LOCOMOTIVES, BOTH NEW AND REBUILT, AND PARTS FOR LOCOMOTIVES SOLD SEPARATELY (37431)	Locomotives	Diesel-electric (except mining type)	Rail service type	37431 11 1	\$	
2			Other types	37431 15 2			
3		Other (except mining type)	Rail service type	37431 21 0			
4			Other types	37431 25 1			
5			Mining type, including both new and rebuilt	37431 60 8			
6		Parts for locomotives	Air brakes	37431 72 3			
7			Other locomotive parts, except wheels and axles	37431 79 8			
8	PASSENGER AND FREIGHT TRAIN CARS, NEW (37432)	Freight train cars, new	Box	37432 11 9			
9			Flat	37432 15 0			
10			Gondola	37432 25 9			
11		Hopper (covered)	Steel	37432 28 3			
12			Aluminum	37432 32 5			
13			Other	37432 34 1			
14			Hopper (uncovered)	37432 31 7			
15			Tank	37432 41 6			
16			Caboose	37432 45 7			
17		Other freight train cars, including refrigerator cars and industrial rail cars	Suitable for common carrier service	37432 51 5			
18			Not suitable for common carrier service	37432 52 3			
19		Passenger train cars, new	Self-propelled vehicles designed to carry passengers or articles	37432 61 4			
20			Non-self-propelled vehicles, including coach, coach combination, etc.	37432 62 2			
21	STREET CARS, PARTS AND ACCESSORIES FOR RAILROAD CARS AND STREET CARS, AND REBUILT PASSENGER AND FREIGHT TRAIN CARS (37433)	Rebuilt passenger and freight train cars	Rebuilt passenger train cars	37433 31 5			
22			Rebuilt freight train cars	37433 51 3			
23			Self-propelled street cars, subway cars, rapid transit, trolley buses, etc.	37433 61 2			
24			Non-self-propelled street cars, subway cars, rapid transit, trolley buses, etc.	37433 62 0			
25			Other work and service railroad vehicles (exclude locomotive cranes)	37433 69 5			
26		Parts and accessories for railroad and street cars	Airbrake equipment	37433 71 1			
27			Other railroad and street car parts and accessories	37433 79 4			
28	TOTAL Sum of lines 1-27			77000 00 8	\$		

Remarks - Please use this space for any explanation that may be essential in understanding your reported data.

Item F CERTIFICATION

This report is substantially accurate and has been prepared in accordance with instructions.

Name of person to contact regarding this report		Telephone		Period covered →	From:	Mo.	Day	Year	To:	Mo.	Day	Year
		Area code	Number		Extension							
Address - Number and street				Signature of authorized person								
City		State		ZIP code		Title			Date			

FEDERAL BUREAU OF CENSUS									
1977 ANNUAL SURVEY OF MANUFACTURES									
NOTE This is the first sheet of the 1977 Census of Manufactures form. PLEASE READ INSTRUCTION MANUAL.									
ITEM 1A - Physical Location a. Is this establishment located in the State, county, and place shown below? (If blank or incomplete, please complete (1) through (4).) (1) Number and street (2) City, village, or other place (3) County (4) If you corrected lines 1, 2, 3, give year moved to new location									
ITEM 1B - Employer Identification Number(s) Is the Employer Identification (E) Number printed in the upper right of the address box the SAME as that used for this establishment on its latest 1977 Employer's Quarterly Federal Tax Return, Treasury Form 941? <input type="checkbox"/> YES <input type="checkbox"/> NO - Enter current E# number →									
ITEM 1C - Organizational status Mark (X) the ONE box which best describes this establishment during 1977: 1 Individual proprietorship 2 Partnership 3 Corporation (Do not mark if any form of cooperative association) 4 Cooperative association (corporate or non-corporate) 5 Other - Specify									
NOTE Figures for dollars, man-hours, KWH should be rounded to thousands. However, you may enter figures to nearest dollars. Carefully enter your figures in the correct columns, e.g., if payroll is \$1,125,628, report either \$1,125,000 or \$1,126,000.									
ITEM 2 - Number of employees Number of production workers during pay period including the 12th of month: a. March b. May c. August d. November e. Sum of lines a-d f. Average number (Divide line e by 4) g. All other employees (pay period of March 12) h. TOTAL f and g (Item 2) →									
ITEM 3A - Annual payrolls a. Production workers' wages b. All other salaries and wages c. TOTAL (Item 3A) →									
ITEM 3B - Employer's cost for fringe benefits (supplemental labor costs) (Exclude from items 3A and 3C) a. Legally required including Social Security b. Payments for voluntary programs c. TOTAL (Item 3B) →									
ITEM 3C - First quarter payroll Total payroll for the first quarter (Jan.-March) →									
ITEM 4 - Plant hours worked by production workers a. January through March b. April through June c. July through September d. October through December e. TOTAL (Item 4) →									
ITEM 5 - Cost of materials and services used a. Cost of materials, parts, components, containers, etc., used b. Cost of products bought and sold as such c. Cost of fuels consumed for heat or power (See item 12) d. Cost of purchased electricity (See item 6) e. Cost of contract work done for you by others f. TOTAL (item 5) →									
ITEM 6 - Quantity of electricity a. Purchased electricity (quantity comparable to cost as reported in item 5d) b. Generated electricity (gross less generating station use) c. Electricity sold or transferred to other establishments d. TOTAL (Item 6) →									
ITEM 7 - Inventories of this establishment at end of year (Report both years) a. Finished products b. Work-in-process c. Materials, supplies, fuels, etc. d. TOTAL (Item 7) →									
ITEM 8 - Depreciable assets, capital expenditures, and retirements Refer to the instruction manual for detailed instructions. (a)									
ITEM 9 - Depreciation charges for the year									
ITEM 10 - Rental payments									
ITEM 11A - Total value of products shipped and other receipts For 1977 report the total value of products shipped and other receipts as entered in Item 18. This value should be completely comparable to the total reported for 1976. If the two figures are not comparable, please explain the reasons why in the remarks section. (Reporting by product class is not required for 1977.)									
ITEM 11B - Value of products exported (also included in item 11A) Report the value of products shipped for EXPORT. Include direct exports and products shipped to exporters or others for export. Do not include products shipped for further manufacture, assembly, or fabrication in the United States. 1 \$0-\$24(999) 2 \$25(000) or more - Report the value of exports →									
ITEM 11C - Unfilled orders (See instruction manual) a. Does this establishment primarily produce for stock and fill orders from inventory? b. What is the number of months normally required to fill an order? c. Report the value of unfilled orders on your books as of the end of the year →									

Page 2

ITEM 12 Purchased fuels used for heat, power, and generating electricity in 1977		5	Code	Unit of measure for quantities	Quantity	1977			Unit cost calculation	
Kind of fuel (a)		561 (b)	(c)	563 (d)	564 (e) Cost, including delivery cost (freight-in) Mil. Thou. Dols.			(f) Calculated unit cost	(g) Usual range of unit costs (Please explain unusual figures in remarks)	
1. Coal		121005 3	Short ton					\$ per ton	\$10-\$30 per ton	
2. Coke (including breeze)		331210 5	Short ton					per ton	40-150 per ton	
3. Distillate fuel oil (2's 1, 2, 4, and light diesel)		291141 0	Bbl. (42 gal.)					per bbl.	5-25 per bbl.	
4. Residual fuel oil (2's 5, 6 and heavy diesel)		291151 9	Bbl. (42 gal.)					per bbl.	5-25 per bbl.	
5. Natural gas		131157 0	1,000 cu. ft.					per MCF	0.25-4.00 per MCF	
6. Other fuels - Specify kind		960011 5								
7. TOTAL COST OF FUELS (Should equal cost shown in Item 5c, page 1) →										

ITEM 13 - Method of valuation for inventories reported for 1977 in Item 7		Method of valuation (a)		Key	Amount at end of 1977 (b)			During the calendar year 1977 did you change the method of valuing the inventories that you reported for this establishment? 1 <input type="checkbox"/> YES - Indicate the nature of the changes in remarks. 2 <input type="checkbox"/> NO
					Mil.	Thou.	Dols.	
Using the inventory total reported for this establishment in item 7d for 1977, please indicate the breakdown of that total according to the inventory valuation methods shown.	• Cost method - Report amounts on lines 1a-f. • Market basis always used - Report amounts on line 2b. • Lower of cost or market - Report amounts valued at cost on lines 1a-f according to the applicable methods and the amount at market on line 2a.	1. Cost	a. First-in, First-out (FIFO)	381				
			b. Last-in, First-out (LIFO)	382				
		2. Market	c. Average cost	383				
			d. Specific or actual cost	384				
			e. Standard cost	385				
			f. Other - Specify	386				
		a. Market used for valuation because market lower than cost	387					
		b. Market always used for valuation	388					
TOTAL (Equals the total reported in Item 7d for 1977) →					389			397

ITEM 14 Cost of purchased services (See instruction Manual)		Key	1977			ITEM 15 Breakdown of machinery and equipment expenditures by type reported in item 8b, col. d (See instruction manual)		Key	1977		
			Mil.	Thou.	Dols.				Mil.	Thou.	Dols.
1. Repair of buildings and other structures	390					1. Automobiles, trucks, etc., for highway use	393				
2. Repair of machinery	391					2. Computers and peripheral data processing equipment	394				
3. Cost of purchased communication services (telephone, telegraph, etc.)	392					3. All other expenditures for new machinery and equipment	395				
TOTAL (Should be the same as item 8b, column d) →											

ITEM 16A Status of this establishment during 1977 (Be sure to indicate the date of any change.)		Enter figures only Mo. Day Year			Enter figures only Mo. Day Year		
1 <input type="checkbox"/> No change in operator or operations					4 <input type="checkbox"/> Establishment closed (no new owner or operator), dismantled, abandoned, or destroyed on		
2 <input type="checkbox"/> Reorganized - Complete report for full year and describe type of change in remarks.					5 <input type="checkbox"/> Establishment idle or inactive but still owned		
3 <input type="checkbox"/> Started new business (newly constructed or completely equipped when started)					7 <input type="checkbox"/> Establishment was sold or leased to another company		
6 <input type="checkbox"/> Establishment was acquired or leased from another company							
<input type="checkbox"/> Building only acquired <input type="checkbox"/> Complete plant acquired (building, machinery, and equipment)					<input type="checkbox"/> Building only sold <input type="checkbox"/> Complete plant sold (building, machinery, and equipment)		
Name of former operator		EI Number (9 digits)			Name of new operator		
Number and street, city, State, ZIP code					Number and street, city, State, ZIP code		

ITEM 16B Company organization		Enter the company name and address (Number and street, city, State, ZIP code) and EI number. If more space is needed to list companies, use remarks section.	
a. Is this company owned or controlled by another company?	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO	603 Name and address of owning or controlling company	
b. Does this company own or control any other company or companies?	1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO	604 Name and address of owned or controlled company	
c. Did this company have any manufacturing plants under construction but not in operation at the end of the year?		1 <input type="checkbox"/> YES 2 <input type="checkbox"/> NO	
d. Did you operate at more than one location during the survey year?		1 <input type="checkbox"/> YES - List additional locations below 2 <input type="checkbox"/> NO - SKIP to item 16C below	
Physical address of business location (Number and street, city, State, ZIP code) (a)	Employer Identification Number (b)	Kind of business at this location (c)	Sales and receipts (d) Mil. Thou. Dols. Annual payroll (e) Mil. Thou. Dols. Number of employees (f)
605	606	607	608 609 610
605	606	607	608 609 610
		Are these figures included on the front of this report? (g) <input type="checkbox"/> YES <input type="checkbox"/> NO	

ITEM 16C CHECKS to assure a complete and accurate report		(1) Review the report carefully to see that no items are omitted for the year being covered. (2) Calculate and enter figures for the four "reasonableness" checks below, and review the results. (3) Correct your report for any errors you find and explain unusual figures in remarks.	
The Bureau of the Census reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report.		For most manufacturing establishments, the figures computed usually fall within the ranges indicated.	
"Reasonableness" checks	Calculation required for each check	Figures for survey year	Usual range
a. Average hourly wages per production worker	Item 3Aa (Production workers' wages) ÷ item 4e (Total hours worked)	\$/hr.	\$2 - \$10
b. Hours worked per year per production worker	Item 4e (Total hours worked) ÷ item 2f (Average number of production workers)	hrs./yr.	1000 - 3000
c. Salaries and wages per dollar of shipments	Item 3Ac (Total payroll) ÷ item 11A (Total value of shipments)	¢	05¢ - 95¢
d. Materials cost per dollar of shipments	Item 5f (Total materials cost) ÷ item 11A (Total value of shipments)	¢	05¢ - 95¢
e. Is the total for Value of Shipments (item 11A) greater than the sum for payroll (item 3Ac) plus total Cost of Materials, etc. (item 5f)?		<input type="checkbox"/> YES <input type="checkbox"/> NO - Explain in remarks	
Remarks - Please use this space for any explanations that may be essential in understanding your reported data.			

PENALTY FOR FAILURE TO REPORT
DUE DATE: FEBRUARY 15, 1978

Form Approved: O.M.B. No. 41-577001

FORM CB-50F (5008)	U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS	NOTICE — Response to this inquiry is required by law (Title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.																																																																																															
1977 CENSUS OF DISTRIBUTIVE TRADES ELECTRICAL GOODS		In correspondence pertaining to this report, please refer to this Census File Number CB-50F (5008)																																																																																															
Important — PLEASE READ ALL ACCOMPANYING INSTRUCTIONS		Employer Identification Number																																																																																															
Please complete this form and RETURN TO BUREAU OF THE CENSUS 1201 East Tenth Street Jeffersonville, Indiana 47132		KEEP THIS COPY FOR YOUR FILES PLEASE COMPLETE AND RETURN THE FORM WHICH SHOWS YOUR NAME AND ADDRESS																																																																																															
Please correct errors in name, address and ZIP code. ENTER street and number if not shown.																																																																																																	
Census use only	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Unit No.</td> <td>Item code</td> <td>Unit No.</td> <td>Item code</td> <td>Unit No.</td> <td>Item code</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>	Unit No.	Item code	Unit No.	Item code	Unit No.	Item code																									Item 1 — PHYSICAL LOCATION OF ESTABLISHMENT — In order to assign this establishment to the correct geographic area, the Bureau of the Census must know the actual location which may differ from the mailing address. Complete items a through g.																																																																	
Unit No.	Item code	Unit No.	Item code	Unit No.	Item code																																																																																												
a. Address number and street name of physical location — If not known, enter building name, shopping center name, or other physical location description. Do not enter P.O. box or rural route. Mark (X) for a, b, c, and d if same as mailing label; if different show corrections. Same as mailing label <input type="checkbox"/> OR ▶ b. Name of city, town, village, borough, etc., of physical location Same as mailing label <input type="checkbox"/> OR ▶ c. State Same as mailing label <input type="checkbox"/> OR ▶ d. ZIP code Same as mailing label <input type="checkbox"/> OR ▶		e. Type of municipality indicated in 1b 1 <input type="checkbox"/> City 4 <input type="checkbox"/> Borough 7 <input type="checkbox"/> Other — Specify 2 <input type="checkbox"/> Town 5 <input type="checkbox"/> Township Mark (X) one 3 <input type="checkbox"/> Village 6 <input type="checkbox"/> Unincorporated 8 <input type="checkbox"/> Don't know f. Is this establishment located inside the legal boundaries of the city, town, village, etc., indicated in 1b? 1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> No legal boundaries 4 <input type="checkbox"/> Don't know NOTE — The area served by a post office generally does not coincide with the legal boundaries of the municipality from which the post office takes its name. g. Name of county (Louisiana parish) of physical location																																																																																															
Item 2 — EMPLOYER IDENTIFICATION NUMBER Is the Employer Identification (EI) Number printed in the upper right of the address box the SAME as that used for this establishment on its latest 1977 Employer's Quarterly Federal Tax Return, Treasury Form 941?		YES <input type="checkbox"/> (9 digits) NO — Enter current EI number → <input type="text"/>																																																																																															
Item 3 — OPERATIONAL STATUS a. Mark (X) the ONE box which best describes this establishment at the end of 1977. 001 1 <input type="checkbox"/> In operation 2 <input type="checkbox"/> Temporarily or seasonally inactive 3 <input type="checkbox"/> Ceased operation — Give date 4 <input type="checkbox"/> Sold or leased to another operator — Give date AND name, etc. Name of new owner or operator _____ Number and street _____ City _____ State _____ ZIP code _____ b. How many months during 1977 did this firm or organization actively operate this establishment?		Item 4 — ORGANIZATIONAL STATUS a. Mark (X) the ONE box which best describes this establishment during 1977. 003 1 <input type="checkbox"/> Individual proprietorship 2 <input type="checkbox"/> Partnership 3 <input type="checkbox"/> Cooperative Association 4 <input type="checkbox"/> Governmental — Specify _____ 5 <input type="checkbox"/> Corporation (other than specified above) 6 <input type="checkbox"/> Other — Specify _____ b. Was all or part of the income of this establishment or organization exempt from Federal income taxes under Section 501 or 521 of the Internal Revenue Code?																																																																																															
Item 5 — DOLLAR VOLUME OF BUSINESS IN 1977 a. Sales and other operating receipts EXCLUDING sales (or other) taxes collected b. Were sales (or other) taxes collected from customers and forwarded to taxing authorities? If "YES," report the amount of such taxes (DO NOT include taxes in 5a above) c. TOTAL SALES and other operating receipts including sales (or other) taxes (Sum of 5a and 5b above) d. Did this establishment sell merchandise on a commission basis? If "YES," go to 5e; if "NO," SKIP to 5g. e. Gross selling value of business conducted for the account of others (Include in 5a)		Dollar figures should be reported as illustrated. Please be careful to enter the figures in the correct columns. See example below: EXAMPLE: If figure is \$1,125,628.28 *PREFERRED method Acceptable method <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Mil. (000)</th> <th>Thou. (000)</th> <th>Dollars (000)</th> </tr> <tr> <td>1</td> <td>125</td> <td>628</td> </tr> </table>	Mil. (000)	Thou. (000)	Dollars (000)	1	125	628																																																																																									
Mil. (000)	Thou. (000)	Dollars (000)																																																																																															
1	125	628																																																																																															
Item 6 — PAYROLL AND EMPLOYMENT a. Payroll (1) Total ANNUAL payroll in 1977 before deductions (2) Payroll for the FIRST QUARTER of 1977		f. Dollar volume of commissions or brokerage received on transactions negotiated for others g. Did your company (including firms under common ownership and control) manufacture or mine, in the United States or its possessions, 50% or more of the products sold by this establishment? h. Did this establishment have transfers (billings) to other establishments within your company? If "YES," go to 5i; if "NO," SKIP to item 5j. i. Dollar volume of transfers (billings) to other establishments within your company (DO NOT include in 5a) j. Did construction receipts represent 50% or more of the total sales (as reported in 5a) of this establishment? b. Employment — Number of paid employees for the pay period including the 12th of the month (include both full- and part-time employees) 032 (1) MAR 033 (2) MAY 034 (3) AUG 035 (4) NOV																																																																																															
Item 7 — OPERATING EXPENSES AND INVENTORIES a. Total 1977 operating expenses, including payroll c. Indicate the value of merchandise inventories on hand at the end of the year specified according to the valuation methods shown. • Cost method — Report amounts on lines (1)(a) through (e) • Market basis always used — Report amounts on line (2)(b) • Lower of cost or market — Report amounts valued at cost on lines (1)(a) through (e) according to the applicable methods and the amount at market on line (2)(a)		b. Did you have merchandise inventories during 1977? 045 1 <input type="checkbox"/> YES — Go to 7c 2 <input type="checkbox"/> NO — SKIP to item 8 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2">Method of inventory valuation</th> <th>Key</th> <th colspan="3">Amount at end of 1977</th> <th>Key</th> <th colspan="3">Amount at end of 1976</th> </tr> <tr> <th></th> <th></th> <th></th> <th>Mil.</th> <th>Thou.</th> <th>Dol.</th> <th></th> <th>Mil.</th> <th>Thou.</th> <th>Dol.</th> </tr> <tr> <td rowspan="5">(1) Cost</td> <td>(a) First-in, First-out (FIFO)</td> <td>110</td> <td></td> <td></td> <td></td> <td>120</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(b) Last-in, First-out (LIFO)</td> <td>111</td> <td></td> <td></td> <td></td> <td>121</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(c) Average cost</td> <td>112</td> <td></td> <td></td> <td></td> <td>122</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(d) Specific or actual cost</td> <td>113</td> <td></td> <td></td> <td></td> <td>123</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(e) Other — Specify</td> <td>114</td> <td></td> <td></td> <td></td> <td>124</td> <td></td> <td></td> <td></td> </tr> <tr> <td rowspan="2">(2) Market</td> <td>(a) Market used for valuation because market lower than cost</td> <td>115</td> <td></td> <td></td> <td></td> <td>125</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(b) Market always used for valuation</td> <td>116</td> <td></td> <td></td> <td></td> <td>126</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(3)</td> <td>TOTAL INVENTORIES (Sum of lines (1)(a) through (e) and lines (2)(a) and (b))</td> <td>046</td> <td></td> <td></td> <td></td> <td>047</td> <td></td> <td></td> <td></td> </tr> </table>	Method of inventory valuation		Key	Amount at end of 1977			Key	Amount at end of 1976						Mil.	Thou.	Dol.		Mil.	Thou.	Dol.	(1) Cost	(a) First-in, First-out (FIFO)	110				120				(b) Last-in, First-out (LIFO)	111				121				(c) Average cost	112				122				(d) Specific or actual cost	113				123				(e) Other — Specify	114				124				(2) Market	(a) Market used for valuation because market lower than cost	115				125				(b) Market always used for valuation	116				126				(3)	TOTAL INVENTORIES (Sum of lines (1)(a) through (e) and lines (2)(a) and (b))	046				047			
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Please continue on page 2 →

Page 2

Item 8 — TYPE OF OPERATION — Mark (X) the ONE item that is best suited to your business — the basis on which the major portion of your operation was conducted in 1977.

a. Merchant (buying and selling on own account) — An establishment primarily engaged in buying and selling merchandise produced by other firms on its own account.

• **Importer** — Source of purchase is primarily foreign.

• **Exporter** — Purchasing goods in the United States for delivery to customers outside the United States.

• **Wholesale merchant, jobber, distributor** — Buying and selling merchandise in the United States for delivery in the United States.

b. Manufacturers' sales branch or sales office — An establishment primarily engaged in selling goods mined or manufactured in the United States and its possessions or Puerto Rico by your company, your parent company, or companies corporately affiliated with your company.

• **Sales branch** — Manufacturers' sales outlet which carries stock.

• **Sales office** — Manufacturers' sales outlet which does not carry stock.

c. Broker, agent, commission merchant — An establishment primarily engaged in selling (or buying) merchandise on an agency basis for others, but not dealing primarily on own account.

• **Auction company** — Selling merchandise for others at wholesale from a permanent location by the auction method.

• **Broker** — Selling (or buying) merchandise on a brokerage basis for others in the United States market, but not receiving goods on consignment.

• **Commission merchant** — Receiving goods on consignment and selling them in the United States market.

• **Import agent** — Representing, on an agency basis, firms outside the United States selling goods in the domestic market.

• **Export agent** — Representing, on an agency basis, domestic firms selling merchandise for delivery outside the United States or its possessions.

• **Manufacturers' agent** — Selling for a limited number of manufacturers on a continuing agency basis.

d. Other type of operation — If none of the above types apply, describe your method of operation.

a. Merchant (buying and selling on own account)

060

- (1) Importer ☐ 12
 (2) Exporter ☐ 13
 (3) Wholesale merchant, jobber, distributor ☐ 11

b. Manufacturers' sales branch or sales office

- (1) Sales branch (with stock) ☐ 21
 (2) Sales office (without stock) ☐ 22

c. Broker, agent, commission merchant

- (1) Auction company ☐ 41
 (2) Broker (representing buyers or sellers) ☐ 42
 (3) Commission merchant ☐ 43
 (4) Import agent ☐ 44
 (5) Export agent ☐ 45
 (6) Manufacturers' agent ☐ 46

d. Other type of operation — Specify ☐

Item 9 — KIND OF BUSINESS — Mark (X) the ONE item that best describes the principal kind of business of this establishment in 1977. If none applies, mark the last item and enter the description by which your business is known to the trade or public.

070

a. Electrical goods

- (1) Electrical apparatus and equipment, wiring supplies, and construction materials ☐ 506300
 (2) Electrical appliances, television and radio sets ☐ 506400
 (3) Electronic parts and equipment ☐ 506500

b. Other kind of business — Specify ☐

Item 10 — SALES BY COMMODITY LINES

Report the volume of sales of each of the listed commodity lines which account for at least 1% of this establishment's sales. If any commodities sold are not prelisted but account for 1% or more of total sales, write in the description and volume of sales in the space provided.

Sales may be reported either in dollar figures (see example on page 1), or as a percent (in whole percents) of the total (see example).

The sum of reported commodity lines should equal the total sales as reported in item 5a if dollars are reported; if percents are used, the sum should equal 100.

EXAMPLE FOR REPORTING PERCENTS

If figure is 38.76% of total sales:

• Report whole percents

Not acceptable

Mil.	Thou.	Dol.	Per-cent
			39%
			38.76%

Description	Census use only	Estimated sales during 1977				Description	Census use only	Estimated sales during 1977			
		Mil.	Thou.	Dol.	Per-cent			Mil.	Thou.	Dol.	Per-cent
1. Electrical goods	170	171			172	Other commodity lines	170	171			172
a. Power and distribution transformers	1311					4. Automotive parts and supplies	0200				
b. Switchgear and switchboard apparatus	1312					5. Household and lawn furniture	0400				
c. Motors and generators	1313					6. Household china, glassware, and crockery	0500				
d. Industrial controls (power circuit devices and controls)	1314					7. Linens, domestics, draperies, and shades	0520				
e. Electric lamps and bulbs	1316					8. Floor coverings	0540				
f. Interior wiring (Report conduit on line i)	1317					9. Other home furnishings	0560				
g. Lighting fixtures (residential and commercial)	1318					10. Plywood, millwork	0650				
h. Communication equipment	1319					11. Sporting and recreational goods and supplies	0800				
i. Other electrical apparatus and equipment (Include conduits, transmission hardware, lightning rods, etc.)	1321					12. Toys, hobby goods and supplies	0900				
j. Total (Sum of lines 1a through 1i)	1300					13. Photographic equipment and supplies	1000				
2. Electrical appliances, household	170	171			172	14. Hardware (Include power hand tools)	1600				
a. Radio and TV sets	1411					15. Plumbing and heating equipment and supplies	1700				
b. Electrical household ranges and ovens	1412					16. Warm air heating and air conditioning equipment and supplies	1800				
c. Refrigerators and freezers, household	1413					17. Refrigeration equipment and supplies	1900				
d. Household laundry equipment	1414					18. Restaurant and hotel equipment and supplies	2020				
e. Vacuum cleaners and sewing machines, household	1415					19. Farm machinery and equipment	2200				
f. Room air conditioners	1416					20. Garden, lawn machinery and equipment	2250				
g. Other electric household appliances (Include fans, dishwashers, etc.)	1417					21. Jewelry, watches, diamonds, and other precious stones (Include silverware)	170	171			172
h. Total (Sum of lines 2a through 2g)	1400					22. Other durable goods (Include phonograph records and pre-recorded tapes)	3030				
3. Electronic parts and equipment						23. Art goods (Include gifts, novelties, and souvenirs)	5910				
a. Electron tubes, receiving and transmitting (Include cathode ray TV picture tubes)	1511					24. Miscellaneous commodities — Specify					
b. Intercommunication equipment	1512					a.	9800				
c. Public address equipment	1513					b.	9800				
d. Semiconductors, transistors, diodes, rectifiers, and other semiconductor devices (solar cells, zener diodes, etc.)	1514					c.	9800				
e. Other electronic parts and equipment	1515					25. Rental receipts — Specify					
f. Total (Sum of lines 3a through 3e)	1500						9940				
						26. Service receipts and labor charges (Include installed parts)					
						a. Labor charges	9711				
						b. Parts installed and repair work	9712				
						c. Other service receipts	9713				
						d. Total (Sum of lines 26a through 26c)	9700				
						27. TOTAL SALES IN 1977 (Sum of lines 1 through 26 should equal the entry in item 5a)	170	171			172
							9990				100%

FORM CB-50F
(5000)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

Please enter the 11-digit
CENSUS FILE NUMBER
as shown on this report
(See label on page 1)

1977 CENSUS OF DISTRIBUTIVE TRADES
ELECTRICAL GOODS

Item 11 — SALES BY CUSTOMER CLASSES

Report the approximate percentage of your 1977 sales (item 5a) to each of the customer classes listed.

Line a — Sales to laboratories, manufacturers of all types, service business, and other business concerns that normally buy for business use rather than for resale of the goods in the form purchased.

Line b — Sales to farmers for use in agricultural production.

Line c — Sales to builders and contractors for construction purposes, not for resale.

Line d — Sales to the Federal government (including the military, post exchanges, GSA, GPO, and similar Federal agencies) and to State and local governments. Include here only sales made by this establishment DIRECT to governmental agencies.

Line e — Sales to retailers of all types (retail chain organizations, independent stores, department stores, etc.) who normally buy for resale to home consumers. Sales to repair shops of all types.

Line f — Sales to organizations that normally purchase for resale at wholesale. Sales to suppliers of plumbing, electrical, farm, and office machinery and supplies. Sales through agents and brokers selling on your account.

Line h — Include sales made direct to buyers in foreign countries, or through their agents in this country. Include transfers, if any, to your own foreign branches. United States possessions should not be considered as foreign countries.

Whole percents

a. To institutional, industrial, commercial, and professional users
Report sales to repair shops on line e.

b. To farmers (for farm use)

c. To builders

d. To governmental bodies (Federal, State, and local governments)

e. To retailers and repair shops

f. To wholesale establishments

g. To household consumers and individual users

h. Export sales

i. TOTAL (Sum of lines a through h should add to 100) —————→ 100%

Item 12 — EMPLOYMENT BY PRINCIPAL ACTIVITY

Report the approximate number of employees at this establishment according to their principal activity during the pay period including March 12, 1977 (total should equal item 6b(1)).

Line a — Include employees primarily engaged in selling services and merchandise from this establishment.

Line b — Include traveling salesmen, truck salesmen, etc.

Line c — Include employees primarily engaged in office and clerical work for this establishment. (See instruction for line e.)

Line d — Include employees primarily engaged in warehousing activities for this establishment. (See instruction for line e.)

Line e — Central administrative — Employees primarily engaged in various management, accounting, clerical, warehousing, etc., services for other establishments of your company. Include corporate officers unless primarily engaged in sales activities.

Number of employees

a. Inside selling

b. Outside selling

c. Office and clerical

d. Warehousing

e. Administrative

f. Manufacturing

g. Other — Specify

h. TOTAL (Sum of lines a through g should equal entry in item 6b(1)) —————→

Item 13 — WAREHOUSE, STOCKROOM, AND OTHER INVENTORY STORAGE SPACE, DECEMBER 31, 1977

Report occupiable floor space excluding space occupied by interior walls, permanent aisles, elevator shafts, stairways, offices, receiving and shipping platforms, etc.

149

a. Did you have warehouse, stockroom, or other inventory storage space on December 31, 1977?

1 YES — Go to 13b

2 NO — SKIP to item 15

Square feet

Mil. Thou. 000

b. Occupiable floor space (under-roof) — occupied and unoccupied — of this establishment

150

Item 14 — Not applicable to this form

Item 15 — CREDIT SALES, RECEIVABLES, AND BAD DEBT LOSSES

155

a. Did you have credit sales, receivables, or bad debt losses in 1977?

1 YES — Go to 15b

2 NO — SKIP to item 16

156

b. Approximately what percent of your 1977 sales were made on credit?

Mil. Thou. Dol.

c. Accounts and notes receivable, outstanding as of December 31, 1977

d. Bad debt losses, 1977

157

158

Item 16 — TRUCKS, TRUCK TRACTORS, AND TRUCK TRAILERS OPERATED, MID-DECEMBER 1977

160

a. Did this establishment operate any trucks, truck tractors, or truck trailers mid-December 1977?

1 YES — Go to 16b

2 NO — SKIP to item 17

b. Number and type of vehicles operated mid-December 1977

TOTAL Owned Rented or leased (without drivers)

(1) Trucks (except tractor trailer)

(2) Truck tractors

(3) Semi-trailers and full-trailers

161 162 163

164 165 166

167 168 169

Remarks — Please use this space for any explanation that may be essential in understanding your reported data.

Item 17 — CERTIFICATION

Census use only

18a. YES NO

18b. YES NO

19a. YES NO

19b. Number 079

Not returned

Blank

Name of person to contact regarding this report

Telephone

Area code Number Extension

Address — Number and street

City State ZIP code

This report is substantially accurate and has been prepared in accordance with instructions.

Period covered — From: Mo. Day Year To: Mo. Day Year

Signature of authorized person

Title Date

U.M.B. No. 41-R2349: Approval Expires November 30, 1978

<p>FORM MA-171 (11-25-77)</p> <p style="text-align: center;">U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS</p> <p style="text-align: center;">DEPARTMENT OF DEFENSE-OWNED AND OPERATED ESTABLISHMENTS PRIMARILY ENGAGED IN MANUFACTURING AND ASSEMBLY, AND/OR RESEARCH AND DEVELOPMENT - 1977</p> <p style="text-align: center;">(Includes shipyards)</p> <p style="text-align: center;">(Supplement to the Annual Survey of Manufactures, Census Form MA-100)</p>	<p>NOTICE - Response to this inquiry is required by law (title 13, U.S. Code). By the same law, your report to the Census Bureau is confidential. It may be seen only by sworn Census employees and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.</p> <p style="text-align: center;">(Please correct if any error in name and address, including ZIP code)</p>
<p>INSTRUCTIONS - This report is to be prepared by those Department of Defense establishments whose primary activities are manufacture and assembly and/or research and development. All shipyards are included.</p> <p>The information requested is based upon reports now regularly prepared by most such establishments.</p>	<p>PLEASE RETURN THIS COPY</p>

ITEM 1 - NAME AND PHYSICAL LOCATION OF ESTABLISHMENT ON DECEMBER 31, 1977													
<p>a. Name of establishment</p> <p>Your answers to parts b, c, d, e, and f of this item should relate to the ACTUAL PHYSICAL LOCATION of this establishment which may be different from the mailing address.</p>	<p>d. Is this establishment physically located within the legal boundaries of the place named in "c"?</p> <p style="text-align: center;"><input type="checkbox"/> Yes <input type="checkbox"/> No</p>												
<p>b. Street and number of establishment location*</p>	<p>e. County in which located</p>												
<p>* If establishment location cannot be described by street and number, give name and number, if any, of road or highway and sufficient information to locate establishment, e.g., Rt. 25, 3 miles south of Charlesville.</p>	<p>f. State ZIP code</p>												
<p>c. Type and name of place in which located - Mark (X) first applicable type and enter name of place.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Type</th> <th style="width: 70%;">Name of place</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/> City</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Village or borough</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Town</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Township</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Other - Specify</td> <td></td> </tr> </tbody> </table>	Type	Name of place	<input type="checkbox"/> City		<input type="checkbox"/> Village or borough		<input type="checkbox"/> Town		<input type="checkbox"/> Township		<input type="checkbox"/> Other - Specify		<p>g. Telephone number of establishment (Include area code)</p>
Type	Name of place												
<input type="checkbox"/> City													
<input type="checkbox"/> Village or borough													
<input type="checkbox"/> Town													
<input type="checkbox"/> Township													
<input type="checkbox"/> Other - Specify													
<p>ITEM 2 - NATURE OF ACTIVITY</p> <p>Describe briefly the kind of activity of this establishment. If a manufacturing plant, list the three most important products.</p>													

ITEM 3 EMPLOYMENT PAYROLLS IN CALENDAR YEAR 1977 (Civilian employees only)	Class of employee	Item code	Number of civilian employees in 1977						Total wages and salaries of civilian employees (Thousands of dollars) (G)
			At end of quarter (As reported on Civil Service Form SF-113-A **)				Sum of columns A, B, C, and D (E)	Average number of employees (Col. E divided by 4) (F)	
			March (A)	June (B)	September (C)	December (D)			
	a. Wage Board employees	41							\$
	b. All others	42							\$
	c. TOTAL CIVILIAN EMPLOYEES → (Sum of lines a and b)	49							\$

** The number of Wage Board employees (line a) should be the same as reported on line 5 of SF-113-A.
The total (line c) should be the same as reported on line 1 of SF-113-A.

ITEM 4 MAN-DAYS OF WAGE BOARD EMPLOYEES BY CALENDAR QUARTER 1977	Enter the total number of man-days of Wage Board employees for each calendar quarter of 1977. Do not include days paid for vacations, holidays, or sick leave.	Item code	1977 Quarterly period	Man-days (Thousands) (A)	Estimated number of man-hours *** (Thousands) (B)
		51	a. January through March		
		52	b. April through June		
		53	c. July through September		
		54	d. October through December		
		59	e. TOTAL, 1977 → (Sum of lines a, b, c, and d)		

*** Obtain figure for column (B) by multiplying column (A) by average number of hours per day per Wage Board employee in this establishment.

ITEM 5 BILLINGS BY THIS ESTABLISH- MENT DURING CALENDAR YEAR 1977	Enter below the specified classes of billings of this establishment for calendar year 1977		
	Billings for products and services (including progress billings)	Item code	Value (Thousands of dollars)
	Manufacture and assembly	61	\$
	Construction and conversion	62	
	Overhaul, repair, and renovation	63	
	Alteration and modification	64	
	Research and development	65	
	Other billings	66	
	Total billings for products and services	67	
	Increase or decrease in unbilled costs of work in progress	68	
TOTAL EARNED REVENUE →		69	
ITEM 6 COSTS DURING CALENDAR YEAR 1977	Types of costs incurred	Item code	Cost (Thousands of dollars)
	Materials, supplies, and parts used	71	\$
	Wages and salaries (same as item 3, code 49, col. G)	72	
	Contractual services and other costs	73	
	TOTAL COSTS INCURRED →	79	
VALUE ADDED (Census use only)		81	
ITEM 7 CHECKS TO ASSURE A COMPLETE AND ACCURATE REPORT (Please complete this item after you have answered all items on this report.)	The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report:		
	a. Review this report carefully to see that no items are omitted.		
	b. Calculate and enter the four "reasonableness" checks (described below), then review the resulting figures.		
	c. Correct your report for any errors you find; explain unusual figures in "Remarks" section.		
	"Reasonableness" checks	Calculation required for each check	Resulting figures for 1977
	(1) Average hourly wages per Wage Board employee	Item code 41, column G (Wages paid Wage Board employees) ÷ item code 59, column B (Total estimated work-hours)	\$
(2) Work days per year per Wage Board employee	Item code 59, column A (Wage Board work-days in thousands) × 1,000 ÷ item code 41, column F (Average number of Wage Board employees)	_____ Work-days	
(3) Wages and salaries per dollar of earned revenue	Item code 72, (Wages and salaries of civilian employees) ÷ item code 69 (Total earned revenue)	\$	
(4) Is the total earned revenue (item code 69, total) greater than total costs incurred (item code 79, total)? <input type="checkbox"/> Yes <input type="checkbox"/> No — If "No," please explain in "Remarks" section.			
ITEM 8 REMARKS PERTAIN- ING TO THIS REPORT			
PERIOD OF REPORT	This report covers the period from _____ to _____		
ITEM 9	Name of person to be contracted regarding this report	Address — Number and street, city, State, ZIP code	Telephone — Area code, number, extension
ITEM 10	CERTIFICATION — This report is substantially accurate and has been prepared in accordance with instructions.		
	Name of establishment	Address — Number and street, city, State, ZIP code	
	Signature of authorized official	Title	Date

DUE DATE: 30 days after receipt

Form Approved: O.M.B. No. 41-577041

FORM MC-D4
(6-7-77)

(Please correct any error in name or address including ZIP code)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1977 CENSUS OF MANUFACTURES

REPORT FROM PENAL INSTITUTIONS

Please complete
this form and
RETURN TOBUREAU OF THE CENSUS
Industry Division
Washington, D.C. 20233

YOUR FILE COPY

PRODUCTS MADE IN THIS ESTABLISHMENT DURING 1977

INSTRUCTIONS FOR TOTAL PRODUCTION

Column (D) — Quantity — Report where appropriate the quantity of all products you made in this institution during 1977. Include products produced for use within the institution and products transferred to other branches of your government.

Column (E) — Value — Report at approximate market value all products, either used within the institution or transferred to other governmental units.

Line No.	Product (A)		Unit of measure (B)	Total production		Census product code (J)
				Quantity (D)	Value (Thousands of dollars) (E)	
1	Meat and meat products				\$	201
2	Canned foods					203
3	Coffee and tea					209
4	Tobacco, chewing and smoking					213
5	Blankets					221
6	Woven fabrics		1,000 lbs.			223
7	Cordage and twine		Thousand linear yards			229
8	Apparel and clothing, including uniforms, coats, etc.					230
9	Sheets and pillowcases					232
10	Canvas specialties					239
11	Mattresses					251
12	Wooden furniture					253
13	Printing and binding					275
14	Soaps					284
15	Paints					285
16	Shoes		Pairs			314
17	Brick	Clay	Thousand brick			325
18		Concrete				326
19	Concrete blocks		Thousand block 8"x8"x16" equivalent			327
20	Motor vehicle license plates (Count a set of front and rear plates as two plates)		Number			346
21	Highway and road signs					399
22	Miscellaneous metal products					349
23	Brooms and brushes					399
24	Prepared animal feeds					204
25	All other products — Specify kind and unit of measure					
26						
27						
28						
29						
30	TOTAL (Sum of lines 1-29)				\$	

Remarks — Please use this space for any explanation that may be essential in understanding your reported data.

CERTIFICATION

This report is substantially accurate and has been prepared in accordance with instructions.

Name of person to contact regarding this report

Telephone

Area code

Number

Extension

Period covered →

From: (Mo., day, Yr.)

To: (Mo., day, Yr.)

Address — Number and street

Signature of authorized person

City

State

ZIP code

Title

Date

APPENDIX E. Authority for Census: Title 13, United States Code

COLLECTION AND PUBLICATION: Five-year periods (131)

The Secretary shall take, compile, and publish censuses of manufactures, of mineral industries, and of other businesses . . . in the year 1964, then in the year 1968, and every fifth year thereafter, and each such census shall relate to the year immediately preceding the taking thereof.

Geographic scope of censuses (191a)

(a) Each of the censuses authorized by this chapter shall include each State, the District of Columbia, the Virgin Islands, Guam, the Commonwealth of the Northern Mariana Islands, and the Commonwealth of Puerto Rico, and as may be determined by the Secretary, such other possessions and areas over which the United States exercises jurisdiction, control, or sovereignty. Inclusion of the other areas over which the United States exercises jurisdiction or control shall be subject to the concurrence of the Secretary of State.

Wrongful Disclosure of Information (214)

Whoever, being or having been an employee or staff member referred to in subchapter II of chapter I of this title, having taken and subscribed the oath of office, or having sworn to observe the limitations imposed by section 9 of this title,

publishes or communicates any information, the disclosure of which is prohibited under the provisions of section 9 of this title, and which comes into his possession by reason of his being employed (or otherwise providing services) under the provisions of this title, shall be fined not more than \$5,000 or imprisoned not more than 5 years, or both.

FAILURE TO ANSWER QUESTIONS AFFECTING COMPANIES, BUSINESSES, RELIGIOUS BODIES, AND OTHER ORGANIZATIONS: FALSE ANSWERS (224)

Whoever, being the owner, official, agent, person in charge, or assistant to the person in charge, of any company, business, institution, establishment, religious body, or organization of any nature whatsoever, neglects or refuses, when requested by the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, to answer completely and correctly to the best of his knowledge all questions relating to his company, business, institution, establishment, religious body, or other organization, or to records or statistics in his official custody, contained on any census or other schedule or questionnaire prepared and submitted to him under the authority of this title, shall be fined not more than \$500; and if he willfully gives a false answer to any such question, he shall be fined not more than \$10,000.

APPENDIX F. Annual Survey of Manufactures

DESCRIPTION OF SURVEY SAMPLE

The annual survey of manufactures (ASM) is a survey based on a probability sample of about 70,000 manufacturing establishments selected from the census of manufactures universe. The current sample was selected from the manufacturing establishments included in the 1972 Census of Manufactures supplemented by Social Security Administration (SSA) files of manufacturers that opened after 1972. As in the earlier surveys, companies rather than establishments were defined as the sampling units. The selected companies were required to report for all of their plants, so that new establishments of existing companies also were represented in the sample.

All companies that had any manufacturing establishments with 250 employees or more in the 1972 census were included in the survey sample. These large companies, included with certainty, collectively account for more than two-thirds of total manufacturing employment.

Smaller companies were selected for the ASM in accordance with mathematical theory for optimum allocation of a sample. Their probabilities of inclusion ranged from 1.000 to 0.005 and were proportional to measures of size determined for each company. The measures of size of companies included in the 1972 Census of Manufactures depended directly upon each company's 1972 product class values and the historic variability of the year-to-year shipments of each product class. Roughly equivalent measures of size were assigned to the postcensus companies based on their industry codes and anticipated employment. (More specific information was not available for them in the SSA files used for sampling.)

To improve the reliability of the industry statistics for geographic areas, two features were incorporated into the sample design. First, some weight was given to the total value of shipments of each establishment relative to the total value of shipments for the State in which the establishment was located. Second, product class values for establishments in those States in which the total level of manufacturing was relatively low or was rapidly expanding (but for which the reliability of estimates was not expected to be much improved by the first sample design feature) were multiplied by factors ranging from 1.15 to 1.25 before measures of size were developed.

This method of assigning measures of size was used to maximize the precision (i.e., minimize the variance) of estimates of the year-to-year change in the value of product class shipments. Implicitly, it also gave weight to differences in employment, value added, and other industry statistics. These items are highly correlated with total value of shipments, and the assigned size measures varied directly with that total for each company.

The cost of collecting and processing data for a company is roughly proportional to the number of its establishment reports. To maximize the sample information obtained for a fixed total cost, each company's initial size measure was divided by the square root of its number of establishments. Sample selection probabilities then were obtained by multiplying each company's final measure of size by an overall sampling fraction calculated to yield the total expected sample size.

The sample selection procedure gave each company in the sampling frame an independent chance of selection. This method of selection differs from the method of systematic selection used in annual surveys prior to 1959. (With systematic selection, only certain combinations of companies can fall into the sample depending on the order in which they are arrayed at the time the sample is drawn.) Independent selection permits the rotation of the smaller companies into and out of a given sample panel without introducing a bias into the survey estimates.

ESTIMATING PROCEDURES

Most of the historical data compiled from the annual survey of manufactures sample were computed by the "difference estimate formula." For each item, linear estimates of the totals for both the most recent census of manufactures year and the ASM year were developed by multiplying each sample establishment's data by its sample weight (the reciprocal of its probability of selection) and summing the weighted values to publication levels. Then the difference between the two linear estimates was added to the complete (universe) total for the census year to produce the estimate for the ASM year. Estimates developed by the difference estimate formula usually are far more reliable than the comparable linear estimates developed from the current sample data alone.

The 1977 sample data were also developed using difference estimates. However, since the universe totals for the census year (either 1972 or 1977) were not known, a modification of the procedure described above was necessary. For each item, except purchased services and the breakdown of expenditures for new machinery and equipment (see further description in appendix A), linear estimates of the publication totals from the ASM sample were adjusted by the difference between imputed census totals and the corresponding ASM sample estimates of these imputed totals. These imputed totals are obtained by applying industry average ratios to control item values at the establishment level. For example, an imputed total beginning assets figure is obtained by multiplying each establishment's total value of shipments by the industry (4-digit SIC) average for the ratio of beginning assets to shipments.

QUALIFICATIONS OF THE DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sampled lists but otherwise conducted under essentially the same conditions as the actual sample survey. The sampling errors—the differences between the estimates obtained and the results theoretically obtainable from a comparable complete coverage survey—are unknown. Guides to the potential size of the sampling errors, however, are provided by the standard errors of the estimates.

The particular sample selected for the ASM is one of a large number of similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretical, comparable, complete coverage values.

Estimates of the standard errors have been computed from the sample data for the current statistics, as well as the historical ASM data. They are presented in the form of relative standard errors, i.e., the standard errors divided by the estimated values to which they refer.

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals—ranges that would include the comparable complete coverage value for specified percentages of all the possible samples. The complete coverage value would be included in the range:

- a. From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.
- b. From two standard errors below to two standard errors above the derived estimate for about 19 out of 20 of all possible samples.
- c. From three standard errors below to three standard errors above the derived estimate for nearly all possible samples.

An inference that the comparable complete survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence with which the estimates from a particular sample would differ from complete coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown as 50,000 with an associated relative standard error of 2 percent, i.e., a

standard error of 1,000 (2 percent of 50,000). Then there is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete coverage total, and almost certain confidence that the interval 47,000 to 53,000 includes the complete coverage total.

In addition to the sample errors, the estimates are subject to various operational errors (errors of collection, reporting, coding, transcription, imputation for nonresponse, etc.). These errors would also occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected in the course of the Bureau's review of the data for reasonableness and consistency. When they were detected too late to correct, the data were suppressed or were specifically qualified in the tables. The small operational errors usually remain; to some extent, they are compensating in the aggregated totals shown.

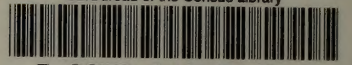
As derived, the estimated standard errors include part of the effect of the operational errors. The total error, which depends upon the joint effect of the sampling and operation errors, is usually of the order of size indicated by the standard error or only moderately higher. For particular estimates, however, the total error may considerably exceed the standard errors shown.

The concept of complete coverage under the conditions prevailing for the annual surveys of manufactures is not identical to the complete coverage of the censuses of manufactures as conducted. Nearly all types of operational errors that affect the surveys also occur in the censuses. The surveys and the censuses, however, are conducted under quite different conditions, and operational errors can be controlled more tightly in the surveys than in the censuses. As a result, errors in many of the census figures are of the same order of size as the total errors in the corresponding annual survey estimates. The differences between the census and the survey operating conditions also disturb, to some degree, the comparability of the census and annual survey data.

Any figure shown in the tables in this publication having an associated standard error exceeding 15 percent may be of limited reliability. However, the figure may be combined with other totals, creating a broader aggregate, which may then be of acceptable reliability.

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